

## AUTHOR INDEX

Volumes 100, 101, 102, and 103, 1995

- ABHISHEK, K.: see Tseng, L.-K.
- ABOU-ALLAIL, M. M. M.: see Chan, S. H.
- AGUERRE, F.: see Rolon, J. C.
- AHO, M. J., PAAKKINEN, K. M., PIRKONEN, P. M.,  
KILPINEN, P., and HUPA, M.  
The Effects of Pressure, Oxygen Partial  
Pressure, and Temperature on the Formation  
of  $N_2O$ ,  $NO$ , and  $NO_2$  from Pulverized Coal,  
102: 387
- ALDUSHIN A. P., MATKOWSKY B. J., and VOLPERT, V. A.  
Stoichiometric Flames and Their Stability,  
101: 15
- ALIGROT, C.: see Sahetchian, K.
- ALTENKIRCH, R. A.: see Ramachandra, P. A.
- ANDERSON, C. F.: see Shampine, R. W.
- ANNAMALAI, K.: see Kharbat, E.
- ARPACI, V. S., and LI, C. Y.  
Turbulent Forced Diffusion Flames, 102: 170
- AUNG, K. T., TSENG, L.-K., ISMAIL, M. A., and  
FAETH, G. M.  
Response to Comment by S. C. Taylor and D.  
B. Smith on "Laminar Burning Velocities  
and Markstein Numbers of Hydrocarbon/  
Air Flames, 102: 526
- AXELBAUM, R. L.: see Du, D. X.
- AXELBAUM, R. L.: see Du, J.
- AXELBAUM, R. L.: see Dufaux, D. P.
- BABKIN, V. S.: see Koshkin, B. Yu.
- BACHMANN, M., WIESE, W., and HOMANN, K.-H.  
Fullerenes Versus Soot in Benzene Flames,  
101: 548
- BAILLOT, F.: see Durox, D.
- BALAKRISHNAN, G., SMOOKE, M. D., and WILLIAMS, F. A.  
A Numerical Investigation of Extinction and  
Ignition Limits in Laminar Nonpremixed  
Counterflowing Hydrogen-Air Streams for  
Both Elementary and Reduced Chemistry,  
102: 329
- BARDON, M. F.: see Rao, V. K.
- BARLOW, R. S.: see Smith, L. L.
- BARONNET, F.: see Walravens, B.
- BARTHOLOMEW, C. H.: see Gale, T. K.
- BAR-YOSEPH, P.: see Moses, E.
- BAR-ZIV, E.: see Weiss, Y.
- BATTIN-LECLERC, F.: see Walravens, B.
- BAYAZITOGLU, Y.: see Shampine, R. W.
- BÉDAT, B., and CHENG, R. K.  
Experimental Study of Premixed Flames in  
Intense Isotropic Turbulence, 100: 485
- BERMUDEZ, G., and PFEFFERLE, L.  
Laser Ionization Time-of-Flight Mass Spec-  
trometry Combined with Residual Gas  
Analysis for the Investigation of Moderate  
Temperature Benzene Oxidation, 100: 41
- BEZMELNITSIN, A. V.: see Dorofeev, S. B.
- BHATIA, R., and SIRIGNANO, W. A.  
Flame Propagation in Metal Slurry Sprays,  
100: 605
- BHATTACHARJEE, S.: see Ramachandra, P. A.
- BISH, E. S., and DAHM, W. J. A.  
Strained Dissipation and Reaction Layer  
Analyses of Nonequilibrium Chemistry in  
Turbulent Reaction Flows, 100: 457
- BLACKHAM, A. U.: see Monson, C. R.
- BLAKE, T. R., and McDONALD, M.  
Similitude and the Interpretation of Turbulent  
Diffusion Flames, 101: 175
- BLIN-SIMIAND, N.: see Sahetchian, K.
- BOOL, L. E., III, PETERSON, T. W., and WENDT, J. O. L.  
The Partitioning of Iron during the Combustion  
of Pulverized Coal, 100: 262
- BOWMAN, C. T.: see Padmanabhan, K. T.
- BRANCH, M. C.: see Vandooren, J.
- BREWSTER, M. Q.: see Son, S. F.
- BREWSTER, Q., and SON, S. F.  
Quasi-Steady Combustion Modeling of Homo-  
geneous Solid Propellants, 103: 11
- BRILL, T. B.: see Williams, G. K.
- BRILLARD, A.: see Gilot, P.
- BRINDLEY, J.: see Johnson, R. G.
- BRIZUELA, V.  
Errors Due to Correlations in Evaluating Mean  
Density from Favre-Averaged Enthalpy and  
Composition in Turbulent Reactive Flow,  
103: 343
- BROUILLETTE, M.: see Lee, J. J.
- BROWN, R. C., KOLB, C. E., YETTER, R. A., DRYER, F. L.,  
and RABITZ, H.  
Kinetic Modeling and Sensitivity Analysis for  
B/H/O/C/F Combination Systems, 101: 221

## AUTHOR INDEX

Volumes 100, 101, 102, and 103, 1995

- ABHISHEK, K.: see Tseng, L.-K.
- ABOU-ALLAIL, M. M. M.: see Chan, S. H.
- AGUERRE, F.: see Rolon, J. C.
- AHO, M. J., PAAKKINEN, K. M., PIRKONEN, P. M.,  
KILPINEN, P., and HUPA, M.  
The Effects of Pressure, Oxygen Partial  
Pressure, and Temperature on the Formation  
of  $N_2O$ , NO, and  $NO_2$  from Pulverized Coal,  
102: 387
- ALDUSHIN A. P., MATKOWSKY B. J., and VOLPERT, V. A.  
Stoichiometric Flames and Their Stability,  
101: 15
- ALIGROT, C.: see Sahetchian, K.
- ALTENKIRCH, R. A.: see Ramachandra, P. A.
- ANDERSON, C. F.: see Shampine, R. W.
- ANNAMALAI, K.: see Kharbat, E.
- ARPACI, V. S., and LI, C. Y.  
Turbulent Forced Diffusion Flames, 102: 170
- AUNG, K. T., TSENG, L.-K., ISMAIL, M. A., and  
FAETH, G. M.  
Response to Comment by S. C. Taylor and D.  
B. Smith on "Laminar Burning Velocities  
and Markstein Numbers of Hydrocarbon/  
Air Flames, 102: 526
- AXELBAUM, R. L.: see Du, D. X.
- AXELBAUM, R. L.: see Du, J.
- AXELBAUM, R. L.: see Dufaux, D. P.
- BABKIN, V. S.: see Koshkin, B. Yu.
- BACHMANN, M., WIESE, W., and HOMANN, K.-H.  
Fullerenes Versus Soot in Benzene Flames,  
101: 548
- BAILLOT, F.: see Durox, D.
- BALAKRISHNAN, G., SMOOKE, M. D., and WILLIAMS, F. A.  
A Numerical Investigation of Extinction and  
Ignition Limits in Laminar Nonpremixed  
Counterflowing Hydrogen-Air Streams for  
Both Elementary and Reduced Chemistry,  
102: 329
- BARDON, M. F.: see Rao, V. K.
- BARLOW, R. S.: see Smith, L. L.
- BARONNET, F.: see Walravens, B.
- BARTHOLOMEW, C. H.: see Gale, T. K.
- BAR-YOSEPH, P.: see Moses, E.
- BAR-ZIV, E.: see Weiss, Y.
- BATTIN-LECLERC, F.: see Walravens, B.
- BAYAZITOGLU, Y.: see Shampine, R. W.
- BÉDAT, B., and CHENG, R. K.  
Experimental Study of Premixed Flames in  
Intense Isotropic Turbulence, 100: 485
- BERMUDEZ, G., and PFEFFERLE, L.  
Laser Ionization Time-of-Flight Mass Spec-  
trometry Combined with Residual Gas  
Analysis for the Investigation of Moderate  
Temperature Benzene Oxidation, 100: 41
- BEZMELNITSIN, A. V.: see Dorofeev, S. B.
- BHATIA, R., and SIRIGNANO, W. A.  
Flame Propagation in Metal Slurry Sprays,  
100: 605
- BHATTACHARJEE, S.: see Ramachandra, P. A.
- BISH, E. S., and DAHM, W. J. A.  
Strained Dissipation and Reaction Layer  
Analyses of Nonequilibrium Chemistry in  
Turbulent Reaction Flows, 100: 457
- BLACKHAM, A. U.: see Monson, C. R.
- BLAKE, T. R., and McDONALD, M.  
Similitude and the Interpretation of Turbulent  
Diffusion Flames, 101: 175
- BLIN-SIMIAND, N.: see Sahetchian, K.
- BOOL, L. E., III, PETERSON, T. W., and WENDT, J. O. L.  
The Partitioning of Iron during the Combustion  
of Pulverized Coal, 100: 262
- BOWMAN, C. T.: see Padmanabhan, K. T.
- BRANCH, M. C.: see Vandooren, J.
- BREWSTER, M. Q.: see Son, S. F.
- BREWSTER, Q., and SON, S. F.  
Quasi-Steady Combustion Modeling of Homo-  
geneous Solid Propellants, 103: 11
- BRILL, T. B.: see Williams, G. K.
- BRILLARD, A.: see Gilot, P.
- BRINDLEY, J.: see Johnson, R. G.
- BRIZUELA, V.  
Errors Due to Correlations in Evaluating Mean  
Density from Favre-Averaged Enthalpy and  
Composition in Turbulent Reactive Flow,  
103: 343
- BROUILLETTE, M.: see Lee, J. J.
- BROWN, R. C., KOLB, C. E., YETTER, R. A., DRYER, F. L.,  
and RABITZ, H.  
Kinetic Modeling and Sensitivity Analysis for  
B/H/O/C/F Combination Systems, 101: 221

- BRUN, M.: see Sahetchian, K.
- BUCKMASTER, J.: see Lozinski, D.
- BULZAN, D. L.: see Levy, Y.
- BUNEV, V. A.: see Koshkin, B. Yu.
- BUSBY, W. F., JR.: see Howard, J. B.
- CANDEL, S.: see Rolon, J. C.
- CARD, J. B. A., and JONES, A. R.  
A Drop Tube Furnace Study of Coal Combustion and Unburned Carbon Content Using Optical Techniques, 101: 539
- CARLIER, M.: see Minetti R.
- CARRIER, G. F., FENDELL, F. E., and FINK, S. F., IV.  
Nonintrusive Stabilization of a Conical Detonation Wave for Supersonic Combustion, 103: 281
- CARTER, C. D.: see Smith, L. L.
- CARVALHO, M. G.: see Köylü, Ü. Ö.
- CATHONNET, M.: see Daugaut, P.
- CATLIN, C. A., FAIRWEATHER, M., and IBRAHIM, S. S.  
Predictions of Turbulent, Premixed Flame Propagation in Explosion Tubes, 102: 115
- CETEEN, B. M., and HERMANSON, J. C.  
Mixing Characteristics of Compressible Vortex Rings Interacting with Normal Shock Waves, 100: 232
- CHAMPOUSSIN, J. C.: see Sahetchian, K.
- CHAN, C. K.  
Collision of a Shock Wave with Obstacles in a Combustible Mixture, 100: 341
- CHAN, S. H., PAN, X. C., and ABOU-ALLAIL, M. M. M.  
Flamelet Structure of Radiating  $\text{CH}_4$ -Air Flames, 102: 438
- CHEN, C. L., and SOHRAB, S. H.  
Upstream Interactions between Planar Symmetric Laminar Methane Premixed Flames, 101: 360
- CHEN, J. H.: see Mahalingam, S.
- CHEN, H.: see Kern, R. D.
- CHEN, L.-D.: see Hsu, K.-Y.
- CHEN, W. S.: see Jiang, T. L.
- CHEN, Y.: see Delichatsios, M. A.
- CHEN, Z. H., and SOHRAB, S. H.  
Flammability Limit and Limit-Temperature of Counterflow Lean Methane-Air Flames, 102: 193
- CHENG, R. K.: see Bédat, B.
- CHENG, R. K.: see Kostiuk, L. W.
- CHENG, R. K.  
Velocity and Scalar Characteristics of Premixed Turbulent Flames Stabilized by Weak Swirl, 101: 1
- CHESEKIS, S.  
Mechanism of Sulfur Chemiluminescent Emission in Pulsed Flames, 100: 550
- CHIU, H. H.: see Jiang, T. L.
- CHO, S., and NIKSA, S.  
Elementary Reaction Models and Correlations for Burning Velocities of Multicomponent Organic Fuel Mixtures, 101: 411
- CHO, S., MARLOW, D., and NIKSA, S.  
Burning Velocities of Multicomponent Organic Fuel Mixtures Derived from Various Coals, 101: 399
- CHOI, M. Y.: see Vander Wal R. L.
- CHOI, M. Y., MULHOLLAND, G. W., HAMINS, A., and KASHIWAGI, T.  
Comparisons of the Soot Volume Fraction Using Gravimetric and Light Extinction Techniques, 102: 161
- CHOMIAK, J., and NISBET, J. R.  
Modeling Variable Density Effects in Turbulent Flames—Some Basic Considerations, 102: 371
- CHOU, T., and PATTERSON, D. J.  
In-Cylinder Measurement of Mixture Maldistribution in an L-Head Engine, 101: 45
- CLARKE, J. F.: see Dold, J. M.
- CLEMENS N. T., and PAUL, P. H.  
Effects of Heat Release on the Near Field Flow Structure of Hydrogen Jet Diffusion Flames, 102: 271
- CLOTHIER, P. Q. E., SHEN, D., and PRITCHARD, H. O.  
Stimulation of Diesel-Fuel Ignition by Benzyl Radicals, 101: 383
- COHEN, R. B.: see Spiglanin, T. A.
- COHEN, R. D.: see Shampine, R. W.
- COIMBRA, C. F. M., and QUIEROZ, M.  
Evaluation of a Dimensionless Group Number to Determine Second-Einstein Temperatures in a Heat Capacity Model for All Coal Ranks, 101: 209
- COLLINS, L. R.: see Dandekar, A.
- COMÉ, G. M.: see Walravens, B.
- CORREA, S. M.  
A Direct Comparison of Pair-Exchange and IEM Models in Premixed Combustion, 103: 194
- CORREA S. M.  
Perturbation Analysis of a Catalytic Combustor, 102: 205
- COZZANI, V., PETARCA, L., PINTUS, S., and TOGNOTTI, L.  
Ignition and Combustion of Single, Levitated Char Particles, 103: 181

- CRESPO, A.: see Hernández J.
- CUDIZILO, S., MARANDA, A., NOWACZEWSKI, J., and TRCINSKI, W.  
Shock Initiation Studies of Ammonium Nitrate Explosives, 102: 64
- DAGAUT, P.: see Ranzi, E.
- DAHM, D. J. A.: see Bish, E. S.
- DAHM, W. J. A.: see Everest, D. A.
- DANDEKAR, A., and COLLINS, L. R.  
Effect of Nonunity Lewis Number on Premixed Flame Propagation through Isotropic Turbulence, 101: 428
- DAOU, J., HALDENWANG, P., and NICOLI, C.  
Supercritical Burning of Liquid Oxygen (LOX) Droplet with Detailed Chemistry, 101: 153
- DAUGAUT, P., REUILLON, M., and CATHONNET, M.  
Experimental Study of the Oxidation of *n*-Heptane in a Jet Stirred Reactor from Low to High Temperature and Pressures up to 40 Atm, 101: 132
- DAVIS, K. A., HURT, R. H., YANG, N. Y. C., and HEADLEY, T. J.  
Evolution of Char Chemistry, Crystallinity, and Ultrafine Structure During Pulverized-Coal Combustion, 100: 31
- DAVIS, M. R., and LIN, L. H.  
Structures Induced by Periodic Acoustic Excitation of a Diffusion Flame, 103: 151
- DE GOEY, L. P. H.: see Eggels, R. L. G. M.
- DELFOSE, L.: see Therssen, E.
- DELICHATSIOS, M.: see Delichatsios, M. A.
- DELICHATSIOS, M. A., DELICHATSIOS, M., CHEN, Y., and HASEMI, Y.  
Similarity Solutions and Applications to Turbulent Upward Flame Spread on Noncharring Materials, 102: 357
- DELLINGER, B.: see Sidhu, S. S.
- DESCHAMPS, B. M.: see Smallwood, G. J.
- DDIBBLE, R. W.: see Nguyen, Q. V.
- DIBBLE, R. W.: see Smith, L. L.
- DI BLASI, C.  
Predictions of Wind-Opposed Flame Spread Rates and Energy Feedback Analysis for Charring Solids in a Microgravity Environment, 100: 332
- DI BLASI, C., and WICHMAN, I. S.  
Effects of Solid-Phase Properties on Flames Spreading over Composite Materials, 102: 229
- DOBBINS, R. A., FLETCHER, R. A., and LU, W.  
Laser Microprobe Analysis of Soot Precursor Particles and Carbonaceous Soot, 100: 301
- DOLD, J. M., and JOULIN, G.  
An Evolution Equation Modeling Inversion of Tulip Flames, 100: 450
- DOLD, J. M., SHORT, M., CLARKE, J. F., and NIKIFORAKIS, N.  
Accumulating Sequence of Ignitions from a Propagating Pulse, 100: 465
- DOLD, J. W., KERR, O. S., and NIKOLOVA, I. P.  
Flame Propagation through Periodic Vortices, 100: 359
- DOROFEEV, S. B., BEZMELNITSIN, A. V., and SIDOROV, V. P.  
Transition to Detonation in Vented Hydrogen-Air Explosions, 103: 243
- DOUGLASS, C. H., LADOUCEUR, H. D., SHAMAMIAN, V. A., and MCDONALD, L. R.  
Combustion Chemistry in Premixed  $C_2F_4$ - $O_2$  Flames, 100: 529
- DRAKE, M. C.: see Mueller, C. J.
- DREIZIN, E. L., and TRUNOV, M. A.  
Surface Phenomena in Aluminum Combustion, 101: 378
- DRISCOLL, J. F.: see Everest, D. A.
- DRISCOLL, J. F.: see Mueller, C. J.
- DRYER, F. L.: see Brown, R. C.
- DRYER, F. L.: see Lee, J. C.
- DRYER, F. L.: see Roesler, J. F.
- DU, D. X., AXELBAUM, R. L., and LAW, C. K.  
Soot Formation in Strained Diffusion Flames with Gaseous Additives, 102: 11
- DU, J., and AXELBAUM, R. L.  
Effect of Flame Structure on Soot-Particle Inception in Diffusion Flames, 100: 367
- DUFAUX, D. P., and AXELBAUM, R. L.  
Nanoscale Unagglomerated Nonoxide Particles from a Sodium Coflow Flame, 100: 350
- DULIM, N. J.: see Hernández J.
- DUROX, D., YUAN, T., BAILLOT, F., and MOST, J. M.  
Premixed and Diffusion Flames in a Centrifuge, 102: 501
- EBBINGHAUS, B. B.  
Thermodynamics of Gas Phase Chromium Species: The Chromium Chlorides, Oxychlorides, Fluorides, Oxyfluorides, Hydroxides, Oxyhydroxides, Mixed Oxyfluorochlorohydroxides, and Volatility Calculations in Waste Incineration Processes, 101: 311
- EDGAR, B. L.: see Nguyen, Q. V.
- EGGELS, R. L. G. M., and DE GOEY, L. P. H.  
Mathematically Reduced Reaction Mechanisms Applied to Adiabatic Flat Hydrogen/Air Flames, 100: 559
- ENG, J. A., ZHU, D. L., and LAW, C. K.

- On the Structure, Stabilization, and Dual Response of Flat-Burner Flames, 100: 645
- ERSHOV, A. P.
- Isothermal Detonation, 101: 339
- EVEREST, D. A., DRISCOLL, J. F., DAHM, W. J. A., and FEIKEMA, D. A.
- Images of the Two-Dimensional Field and Temperature Gradients to Quantify Mixing Rates within a Non-Premixed Turbulent Jet Flame, 101: 58
- FAETH, G. M.: see Aung, K. T.
- FAETH, G. M.: see Köylü, Ü. Ö.
- FAETH, G. M.: see Sunderland, P. B.
- FAIRWEATHER, M.: see Catlin, C. A.
- FARAVELLI, T.: see Ranzi, E.
- FARIAS, T. L.: see Köylü, Ü. Ö.
- FEIKEMA, D. A.: see Everest, D. A.
- FENDELL, F. E.: see Carrier, G. F.
- FERNANDEZ-PELLO, A. C.: see Schult, D. A.
- FINK, S. F., IV.: see Carrier, G. F.
- FLEMING, J. W.: see Williams, B. A.
- FLETCHER, R. A.: see Dobbins, R. A.
- FLETCHER, T. H.: see Gale, T. K.
- FOTOU, G. P., SCOTT, S. J., and PRATSINIS, S. E.
- The Role of Ferrocene in Flame Synthesis of Silica, 101: 529
- FOURNIER, E. W.: see Spiglanin, T. A.
- FOWLES, M.: see Griffin, T.
- FRENKLACH, M.: see Kazakov, A.
- FROST, D. L.: see Lee, J. J.
- FROUD, D., O'DOHERTY, T., and SYRED, N.
- Phase Averaging of the Precessing Vortex Core in a Swirl Burner under Piloted and Premixed Combustion Conditions, 100: 407
- FU, W. B., and ZHANG, B. L.
- Experimental Determination of the Equivalent Mass Diffusivity for a Porous Coal-Ash Particle, 101: 371
- FUERTES, A. B.: see Marban, G.
- FUJIWARA, T.: see Lefebvre, M. H.
- GAFFURI, P.: see Ranzi, E.
- GALE, T. K., BARTHOLOMEW, C. H., and FLETCHER, T. H.
- Decreases in the Swelling and Porosity of Bituminous Coals during Devolatilization at High Heating Rates, 100: 94
- GERHOLD, B. W., and INKROTT, K. E.
- Nonoxide Ceramic Powder Synthesis, 100: 144
- GERMANE, G. J.: see Monson, C. R.
- GHONIEM, A. F.: see Petrov, C. A.
- GILOT, P., BRILLARD, A., and STANMORE, B. R.
- Geometric Effects on Mass Transfer during Thermogravimetric Analysis: Application to Reactivity of Diesel Soot, 102: 471
- GÖKALP, I.: see Smallwood, G. J.
- GOPALAKRISHNAN, C.: see Kharbat, E.
- GORE, J. P.: see Tseng, L.-K.
- GORE, J. P.: see Zhou, X. C.
- GOULD, J.: see Raine, R. R.
- GOULDIN, F. C., and MILES, P. C.
- Chemical Closure and Burning Rates in Premixed Turbulent Flames, 100: 202
- GOURICHON, L.: see Therssen, E.
- GREENBERG, J. B.: see Ronney, P. D.
- GREENBERG, P. S.: see Ku, J. C.
- GRIFFIN, D. W.: see Ku, J. C.
- GRIFFIN, T., WEISENSTEIN, W., SCHERER, V., and FOWLES, M.
- Palladium-Catalyzed Combustion of Methane: Simulated Gas Turbine Combustion at Atmospheric Pressure, 101: 81
- GRINSTEIN, F. F., and KAILASANATH, K.
- Erratum, 101: 192
- GRINSTEIN, F. F., and KAILASANATH, K.
- Three-Dimensional Numerical Simulations of Unsteady Reactive Square Jets, 100: 2
- GUERASSI, N.: see Sahetchian, K.
- GULATI, A.: see Nguyen, Q. V.
- GÜLDER, Ö. L.
- Effects of Oxygen on Soot Formation in Methane, Propane and *n*-Butane Diffusion Flames, 101: 302
- GÜLDER, Ö. L.: see Smallwood, G. J.
- GÜLDER, Ö. L., and SMALLWOOD, G. J.
- Inner Cutoff Scale of Flame Surface Wrinkling in Turbulent Premixed Flames, 103: 107
- GUTSCHE, G. J.: see Hayes, F.
- HACKENBERG, C. M.: see Lage, P. L. C.
- HALDENWANG, P.: see Daou, J.
- HAMINS, A.: see Choi, M. Y.
- HASEMI, Y.: see Delichatsios, M. A.
- HAYES, F., GUTSCHE, G. J., LAWRENCE, W. D., STAKER, W. S., and KING, K. D.
- Singlet Methylene Removal by Saturated and Unsaturated Hydrocarbons, 100: 653
- HAYHURST, A. N., and LAWRENCE, A. D.
- The Devolatilization of Coal and a Comparison of Chars Produced in Oxidizing and Inert Atmospheres in Fluidized Beds, 100: 591
- HEADLEY, T. J.: see Wornat, M. J.
- HEADLEY, T. J.: see Davis, K. A.
- HEDMAN, P. O., and WARREN, D. L.
- Turbulent Velocity and Temperature Measurements from a Gas-Field Technology Combustor with a Practical Fuel Injector, 100: 185
- HEISS, A.: see Sahetchian, K.



- HERMANSON, J. C.: see Cetegen, B. M.
- HERNÁNDEZ J., CRESPO, A., and DULIM, N. J.  
 Numerical Modeling of Turbulent Jet Diffusion  
 Flames in the Atmospheric Surface Layer,  
 101: 113
- HIRANO, T.: see Sato, J.
- HOCHGREB, S.: see Wu, K.-C.
- HOMANN, K.-H.: see Bachmann, M.
- HOWARD, J. B., LONGWELL, J. P., MARR, J. A., POPE, C. J.,  
 BUSBY, W. F., JR., LAFLEUR, A. L., and  
 TAGHIZADEH, K.  
 Effects of PAH Isomerizations on Mutagenicity  
 of Combustion Products, 101: 262
- HSU, K.-Y., and CHEN, L.-D.  
 An Experimental Investigation of Li and SF<sub>6</sub>  
 Wick Combustion, 102: 73
- HUPA, M.: see Aho, M. J.
- HURT, R. H.: see Wornat, M. J.
- HURT, R. H.: see Davis, K. A.
- IBRAHIM, S. S.: see Catlin, C. A.
- ILINCIC, N.: see Seshadri, K.
- IM, H. G., LAW, C. K., KIM, J. S., and WILLIAMS, F. A.  
 Response of Counterflow Diffusion Flames to  
 Oscillating Strain Rates, 100: 21
- INKROTT, K. E.: see Gerhold, B. W.
- ISMAIL, M. A.: see Aung, K. T.
- ISOM, K. B.: see Mellor, A. M.
- IWASAKA, M.: see Kondo, S.
- JAGODA, J. I.: see Tang, Y. M.
- JIANG, T. L., CHEN, W. S., TSAI, M. J., and CHIU, H. H.  
 A Numerical Investigation of Multiple Flame  
 Configurations in Convective Droplet  
 Gasification, 103: 221
- JOHNSON, R. G., MCINTOSH, A. C., and BRINDLEY, J.  
 Extinction of Premixed Flames by Pressure  
 Drops, 102: 493
- JONES, A. R.: see Card, J. B. A.
- JONES, J. C.  
 Comment on "Comparisons of the Structure of  
 Stoichiometric CH<sub>4</sub>-N<sub>2</sub>-Ar and H<sub>2</sub>-O<sub>2</sub>-Ar  
 Flames by Molecular Beam Sampling and  
 Mass-Spectrometric Analysis" by J.  
 Vandooren, M. C. Branch, and P. J. Van  
 Tiggelen, 101: 193
- JORAND, F.: see Sahetchian, K.
- JOULIN, G.: see Dold, J. M.
- JU, Y., and NIIOKA, T.  
 Ignition Simulation of Methane/Hydrogen  
 Mixtures in a Supersonic Mixing Layer,  
 102: 462
- KAILASANATH, K.: see Grinstein, F. F.
- KAISE, M.: see Kondo, S.
- KASHIWAGI, T.: see Choi, M. Y.
- KATTA, V. R., and ROQUEMORE, W. M.  
 Numerical Studies on the Structure of Two-  
 Dimensional H<sub>2</sub>/Air Premixed Jet Flame,  
 102: 21
- KATTA, V. R., and ROQUEMORE, W. M.  
 On the Structure of a Stretched/Compressed  
 Laminar Flamelet—Influence of Preferen-  
 tial Diffusion, 100: 61
- KAUFFMAN, C. W.: see Li, Y.-C.
- KAZAKOV, A., WANG, H., and FRENKLACH, M.  
 Detailed Modeling of Soot Formation in  
 Laminar Premixed Ethylene Flames at a  
 Pressure of 10 Bar, 100: 111
- KEENER, H. M.: see Lin, J.-L.
- KENNEDY, L. A.: see Zhdanok, S.
- KERN, R. D., CHEN, H., KIEFER, J. H., and  
 MUDIPALLI, P. S.  
 Thermal Decomposition of Propargyl Bromide  
 and the Subsequent Formation of Benzene,  
 100: 177
- KERR, O. S.: see Dold, J. W.
- KHARBAT, E., ANNAMALAI, K., and GOPALAKRISHNAN, C.  
 Ignition and Combustion of Isolated and Binary  
 Array of Coal Particles, 100: 413
- KIEFER, J. H.: see Kern, R. D.
- KILPINEN, K.: see Aho, M. J.
- KIM, J. S.: see Im, H. G.
- KIM, S.-W.  
 Numerical Investigation of Chemical Reaction-  
 Turbulence Interaction in Compressible  
 Shear Layers, 101: 197
- KING, K. D.: see Hayes, F.
- KNUTH, E. L.  
 Composition Distortion in MBMS Sampling,  
 103: 171
- KOESTER, G.: see Zhdanok, S.
- KOLB, C. E.: see Brown, R. C.
- KONDO, S., TOKUHASHI, K., NAGAI, H., IWASAKA, M.,  
 and KAISE, M.  
 Spontaneous Ignition Limits of Silane and  
 Phosphine, 101: 170
- KOROLCHENKO, A. YA.: see Shebeko, Yu. N.
- KOSHKIN, B. YU., BUNEV, V. A., BABKIN, V. S., and  
 LAEVSKY, YU. M.  
 The Decomposition Flame of Hydrazine in Inert  
 Porous Media, 103: 143
- KOSTIUK, L. W., and CHENG, R. K.  
 The Coupling of Conical Wrinkled Laminar  
 Flames with Gravity, 103: 22
- KÖYLÜ, Ö. Ö., FAETH, G. M., FARIAS, T. L., and  
 CARVALHO, M. G.  
 Fractal and Projected Structure Properties of  
 Soot Aggregates, 100: 621

- KÖYLÜ, Ö. Ö.: see Sunderland, P. B.  
 KOZINSKI, J. A.: see Rink, K. K.  
 KRAMLICH, J. C.: see Steele, R. C.  
 KU, J. C., GRIFFIN, D. W., GREENBERG, P. S., and ROMA, J.  
   Buoyancy-Induced Differences in Soot Morphology, 102: 216  
 LADOUCEUR, H. D.: see Douglass, C. H.  
 LAEVSKY, YU. M.: see Koshkin, B. Yu.  
 LAFLEUR, A. L.: see Howard, J. B.  
 LAGE, P. L. C., HACKENBERG, C. M., and RANGEL, R. H.  
   Nonideal Vaporization of Dilating Binary Droplets with Radiation Absorption, 101: 36  
 LAHAYE, J.: see Rybak, W.  
 LAU, J. H. W.  
   Comparison of Pdf and Eddy-Dissipation Combustion Models Applied to a Propane Jet Flame, 102: 209  
 LAURENDEAU, N. M.: see Reisel, J.  
 LAW, C. K.: see Du, D. X.  
 LAW, C. K.: see Eng, J. A.  
 LAW, C. K.: see Im, H. G.  
 LAW, C. K.: see Makino, A.  
 LAW, C. K.: see Sung, C. J.  
 LAWRENCE, A. D.: see Hayhurst, A. N.  
 LAWRENCE, W. D.: see Hayes, F.  
 LEE, H., and SOHRAB, S. H.  
   Hydrodynamic Aspects of Premixed Flame Stripes in Two-Dimensional Stagnation-Point Flows, 101: 441  
 LEE, J. C., YETTER, R. A., and DRYER, F. L.  
   Transient Numerical Modeling of Carbon Particle Ignition and Oxidation, 101: 387  
 LEE, J. G., LEE, T.-W., NYE, D. A., and SANTAVICCA, D. A.  
   Lewis Number Effects on Premixed Flames Interacting with Turbulent Kármán Vortex Streets, 100: 161  
 LEE, J. H. S.: see Lee, J. J.  
 LEE, J. J., BROUILLETTE, M., FROST, D. L., and LEE, J. H. S.  
   Effect of Diethylenetriamine Sensitization on Detonation of Nitromethane in Porous Media, 100: 292  
 LEE, K.-O.: see Vander Wal R. L.  
 LEE, T.-W.: see Lee, J. G.  
 LEE, Y. Y., and POPE, S. B.  
   Nonpremixed Turbulent Reacting Flow Near Extinction, 101: 501  
 LEFEBVRE, M. H., and FUJIWARA, T.  
   Numerical Modeling of Combustion Processes Induced by a Supersonic Conical Blunt Body, 100: 85  
 LENTINI, D., and PURI, I. K.  
   Stretched Laminar Flamelet Modelong of Turbulent Chloromethane-Air Nonpremixed Jet Flames, 103: 328  
 LEUNG, K. M., and LINDSTEDT, R. P.  
   Detailed Kinetic Modeling of  $C_1$ - $C_3$  Alkane Diffusion Flames, 102: 129  
 LEVY, N.: see Sahetchian, K.  
 LEVY, Y., and BULZAN, D. L.  
   On the Oscillation of Combustion of a Laminar Spray, 100: 543  
 LI, C. Y.: see Arpaci, V. S.  
 LI, Y.-C., KAUFFMAN, C. W., and SICHEL, M.  
   Experimental Study of Deflagration to Detonation Transition Supported by Dust Layers, 100: 505  
 LIBBY, P. A.: see Maury, F. A.  
 LIGHTY, J. S.: see Rink, K. K.  
 LIN, J.-L., and KEENER, H. M.  
   Pyrolysis and Combustion of Corncobs in a Fluidized Bed: Measurement and Analysis of Behavior, 100: 271  
 LIN, L.-H.: see Davis, M. R.  
 LIN, M. C.: see Sheu, W. J.  
 LIN, M. C.: see Yu, T.  
 LINAK, W. P., SRIVASTAVA, R. K., and WENDT, J. O. L.  
   Sorbent Capture of Nickel, Lead, and Cadmium in a Laboratory Swirl Flame Incinerator, 100: 241  
 LIÑÁN, A.: see Treviño, C.  
 LINDSTEDT, R. P.: see Leung, K. M.  
 LIU, J. B.: see Sung, C. J.  
 LIU, T.-K.: see Shyu, I.-M.  
 LOCKWOOD, F. C., and VAN NIEKERK, J. E.  
   Parametric Study of a Carbon Black Oil Furnace, 103: 76  
 LONGWELL, J. P.: see Howard, J. B.  
 LOZINSKI, D., and BUCKMASTER, J.  
   Quenching of Reverse Smolder, 102: 87  
 LU, W.: see Dobbins, R. A.  
 MAHALINGAM, S., CHEN, J. H., and VERVISCH, L.  
   Finite-Rate Chemistry and Transient Effects in Direct Numerical Simulations of Turbulent Nonpremixed Flames, 102: 285  
 MAKINO, A., and LAW, C. K.  
   Burning Velocity of the Heterogeneous Flame Propagation in the SHS Process Expressed in Explicit Form, 101: 551  
 MALTE, P. C.: see Steele, R. C.  
 MAQSD, L.: see Sidhu, S. S.  
 MARANDA, A.: see Cudizilo, S.  
 MARBAN, G., PIS, J. J., and FUERTES, A. B.  
   Characterizing Fuels for Atmospheric Fluidized Bed Combustion, 103: 41

- MARLOW, D.: see Cho, S.  
 MARR, J. A.: see Howard, J. B.  
 MASCOLO, G.: see Sidhu, S. S.  
 MASTORAKOS, E., TAYLOR, A. M. K. P., and WHITELAW, J. H.  
   Extinction of Turbulent Counterflow Flames with Reactants Diluted by Hot Products, 102: 101  
 MATKOWSKY, B. J.: see Aldushin, A. P.  
 MATKOWSKY, B. J.: see Schult, D. A.  
 MAURY, F. A., and LIBBY, P. A.  
   Nonpremixed Flames in Stagnating Turbulence Part I—The  $\kappa$ - $\epsilon$  Theory with Equilibrium Chemistry for the Methane-Air System, 102: 341  
 McDONALD, J. R.: see Douglass, C. H.  
 McDONALD, M.: see Blake, T. R.  
 MCILROY, A.: see Spiglanin, T. A.  
 MCINTOSH, A. C.: see Johnson, R. G.  
 MEGARIDIS, C. M.: see Shih, A. T.  
 MELLOR, A. M., WIEGAND, D. A., and ISOM, K. B.  
   Hot Spot Histories in Energetic Materials, 101: 26  
 MILES, P. C.: see Gouldin, F. C.  
 MILLER, G. P.  
   The Structure of a Stoichiometric  $\text{CCl}_4\text{-CH}_4$ -Air Flat Flame, 101: 101  
 MILLER, H. J.: see Skaggs, R. R.  
 MINETTI R., CARLIER, M., RIBAUCCOUR, M., THERSSEN, E., and SOCHET, L. R.  
   A Rapid Compression Machine Investigation of Oxidation and Auto-Ignition of *n* Heptane: Measurements and Modeling, 102: 298  
 MITANI, T.  
   Ignition Problems in Scramjet Testing, 101: 347  
 MONSON, C. R., GERMANE, G. J., BLACKHAM, A. U., and SMOOT, L. D.  
   Char Oxidation at Elevated Pressures, 100: 669  
 MOSES, E., YARIN, A. L., and BAR-YOSEPH, P.  
   On Knocking Prediction in Spark Ignition Engines, 101: 239  
 MOSS, J. B., STEWART, C. D., and YOUNG, K. J.  
   Modeling Soot Formation and Burnout in a High Temperature Laminar Diffusion Flame Burning Under Oxygen-Enriched Conditions, 101: 491  
 MOST, J. M.: see Durox, D.  
 MUDIPALLI, P. S.: see Kern, R. D.  
 MUELLER, C. J., DRISCOLL, J. F., SUTKUS, D. J., ROBERTS, W. L., DRAKE, M. C., and SMOOKE, M. D.  
   Effect of Unsteady Stretch Rate on OH Chemistry during a Flame-Vortex Interaction, 100: 323  
 MULHOLLAND, G. W.: see Choi, M. Y.  
 NAGAI, H.: see Kondo, S.  
 NAVZENYA, V. YU.: see Shebeko, Yu. N.  
 NGUYEN, Q. V., EDGAR, B. L., DIBBLE, R. W., and GULATI, A.  
   Experimental and Numerical Comparison of Extractive and In Situ Laser Measurements of Non-Equilibrium Carbon Monoxide in Lean-Premixed Natural Gas Combustion, 100: 395  
 NICOL, D. G.: see Steele, R. C.  
 NICOLI, C.: see Daou, J.  
 NIJOKA, T.: see Ju, Y.  
 NIKIFORAKIS, N.: see Dold, J. M.  
 NIKOLOVA, I. P.: see Dold, J. W.  
 NIKSA, S.  
   Predicting the Devolatilization Behavior of any Coal from Its Ultimate Analysis, 100: 384  
 NIKSA, S.: see Cho, S.  
 NISBET, J. R.: see Chomiak, J.  
 NORRIS, A. T., and POPE, S. B.  
   Modeling of Extinction in Turbulent Diffusion Flames by the Velocity-Dissipation-Composition PDF Method, 100: 211  
 NORRIS, M. G.: see Wu, K.-C.  
 NOWACZEWSKI, J.: see Cudizilo, S.  
 NYE, D. A.: see Lee, J. G.  
 O'DOHERTY, T.: see Froud, D.  
 OHTANI, H.: see Sato, J.  
 PAAKKINEN, K. M.: see Aho, M. J.  
 PADMANABHAN, K. T., BOWMAN, C. T., and POWELL, J. D.  
   An Adaptive Optimal Combustion Control Strategy, 100: 101  
 PAN, X. C.: see Chan, S. H.  
 PANFILOV, I. I.: see Smirnov, N. N.  
 PAPKOV, S. N.: see Shebeko, Yu. N.  
 PATTERSON, D. J.: see Chou, T.  
 PAUL, P. H.: see Clemens, N. T.  
 PETARCA, L.: see Cozzani, V.  
 PETERSON, T. W.: see Bool, L. E., III  
 PETROV, C. A., and GHONIEM, A. F.  
   The Transient Response of Strained Laminar-Premixed Flames, 102: 401  
 PFEFFERLE, L.: see Bermudez, G.  
 PINTUS, S.: see Cozzani, V.  
 PIKONEN, P. M.: see Aho, M. J.  
 PIS, J. J.: see Marban, G.  
 POPE, C. J.: see Howard, J. B.  
 POPE, S. B.: see Lee, Y. Y.  
 POPE, S. B.: see Norris, A. T.  
 POWELL, J. D.: see Padmanabhan, K. T.  
 PRAKASH, S.: see Shaygan, N.  
 PRATSINIS, S. E.: see Fotou, G. P.



- PRITCHARD, H. O.: see Clothier, P. Q. E.
- PURI, I. K.  
 The Removal of NO by Low-Temperature O<sub>2</sub> Oxidation, 102: 512
- PURI, I. K.: see Lentini, D.
- PURI, R., SANTORO, R. J., and SMYTH, K.  
 Erratum, 102: 226
- QUIEROZ, M.: see Coimbra, C. F. M.
- RABITZ, H.: see Brown, R. C.
- RAINE, R. R., STONE, C. R., and GOULD, J.  
 Modeling of Nitric Oxide Formation in Spark Ignition Engines with a Multizone Burned Gas, 102: 241
- RAMACHANDRA, P. A., ALTENKIRCH, R. A., BHATTACHARJEE, S., TANG, L., SACKSTEDER, K., and WOLVERTON, M. K.  
 The Behavior of Flames Spreading Over Thin Solids in Microgravity, 100: 71
- RANGEL, R. H.: see Lage, P. L. C.
- RANZI, E., FARAVELLI, T., GAFFURI, P., and SOGARO, A.  
 Low-Temperature Combustion: Automatic Generation of Primary Oxidation Reactions and Lumping Procedures, 102: 179
- RANZI, E., GAFFURI, P., FARAVELLI, T., and DAGAUT, P.  
 A Wide-Range Modeling Study of *n*-Heptane Oxidation, 103: 91
- RAO, V. K., BARDON, M. F., and STOWE, R. A.  
 Kinetic Parameters of Composite Propellants from Thermogravimetric Data, 102: 219
- REISEL, J., and LAURENDEAU, N. M.  
 Quantitative LIF Measurements and Modeling of Nitric Oxide in High-Pressure C<sub>2</sub>H<sub>4</sub>/O<sub>2</sub>/N<sub>2</sub> Flames, 101: 141
- REUILLON, M.: see Daugaut, P.
- RIBAUCOUR, M.: see Minetti R.
- RIGHTLEY, M. L., and WILLIAMS, F. A.  
 Analytical Approximations for Structures of Wet CO Flames with One-Step Reduced Chemistry, 101: 287
- RINK, K. K., KOZINSKI, J. A., and LIGHTY, J. S.  
 Biosludge Incineration in FBCs: Behavior of Ash Particles 100: 121
- ROBERTS, W. L.: see Mueller, C. J.
- ROEGNER, E. V.: see Ronney, P. D.
- ROESLER, J. F., YETTER, R. A., and DRYER, F. L.  
 Kinetic Interactions of CO, NO<sub>x</sub>, and HCl Emissions in Postcombustion Gases, 100:495
- ROLON, J. C., AGUERRE, F., and CANDEL, S.  
 Experiments on the Interaction between a Vortex and a Strained Diffusion Flame, 100:422
- ROM, J.: see Tivanov, G.
- ROMA, J.: see Ku, J. C.
- RONNEY, P. D., GREENBERG, J. B., ZHANG, Y., and ROEGNER, E. V.  
 Flame Spread over Thin Solid Fuels in Partially Premixed Atmospheres, 100: 474
- ROQUEMORE, W. M.: see Katta, V. R.
- RUTLAND, C. J.: see Zhang, S.
- RYBAK, W., and LAHAYE, J.  
 Fluidized Bed Feeding of Carbon Black Particles, 103: 239
- SACKSTEDER, K.: see Ramachandra, P. A.
- SAHETCHIAN, K., CHAMPOUSSIN, J. C., BRUN, M., LEVY, N., BLIN-SIMIAND, N., ALIGROT, C., JORAND, F., SOCOLIUC, M., HEISS, A., and GUERASSI, N.  
 Experimental Study and Modeling of Dodecane Ignition in a Diesel Engine, 103: 207
- SANTAVICCA, D. A.: see Lee, J. G.
- SANTORO, R. J.: see Puri, R.
- SATO, L., OHTANI, H., and HIRANO, T.  
 Ignition Process of a Heated Iron Block in High-Pressure Oxygen Atmosphere, 100: 376
- SCHERER, V.: see Griffin, T.
- SCHULT, D. A., MATKOWSKY, B. J., VOLPERT, V. A., and FERNANDEZ-PELLO, A. C.  
 Propagation and Extinction of Forced Opposed Flow Smolder Waves, 101: 471
- SCOTT, S. J.: see Fotou, G. P.
- SELL, J. A.: see Tanoff, M. A.
- SESHADRI, K., and ILINCIC, N.  
 The Asymptotic Structure of Inhibited Nonpremixed Methane-Air Flames, 101: 271
- SESHADRI, K., and ILINCIC, N.  
 The Asymptotic Structure of Nonpremixed Methane-Air Flames with Oxidizer Leakage of Order Unity, 101: 69
- SHAMAMIAN, V. A.: see Douglass, C. H.
- SHAMPINE, R. W., COHEN, R. D., BAYAZITOGU, Y., and ANDERSON, C. F.  
 Effect of Agglomeration on Pulverized-Coal Combustion, 101: 185
- SHAYGAN, N., and PRAKASH, S.  
 Droplet Ignition and Combustion Including Liquid-Phase Heating, 102: 1
- SHEBEKO, YU. N., TSARICHENKO, S. G., KOROLCHENKO, A. YA., TRUNEV, A. V., NAVZENYA, V. YU., PAPKOV, S. N., and ZAITZEV, A. A.  
 Burning Velocities and Flammability Limits of Gaseous Mixtures at Elevated Temperatures and Pressures, 102: 427
- SHEN, D.: see Clothier, P. Q. E.
- SHEPHERD, I. G.  
 Heat Release and Induced Strain in Premixed Flames, 103: 1

- SHEU, W. J., and LIN, M. C.  
 Gas-Phase Ignition of Accelerated Boundary-Layer Flows on Strongly Catalytic Surfaces, 103: 161
- SHIH, A. T., and MEGARIDIS, C. M.  
 Suspended Droplet Evaporation Modeling in a Laminar Convective Environment, 102: 256
- SHORT, M.: see Dold, J. M.
- SHYU, I.-M., and LIU, T.-K.  
 Combustion Characteristics of GAP-Coated Boron Particles and the Fuel-Rich Solid Propellant, 100: 634
- SICHEL, M.: see Li, Y.-C.
- SIDHU, S. S., MAQSUD, L., DELLINGER, B., and MASCOLO, G.  
 The Homogeneous, Gas-Phase Formation of Chlorinated and Brominated Dibenzo-*p*-dioxin from 2,4,6-Trichloro- and 2,4,6-Tribromophenols, 100: 11
- SIDOROV, V. P.: see Dorofeev, S. B.
- SIRIGNANO, W. A.: see Bhatia, R.
- SKAGGS, R. R., and MILLER, H. J.  
 A Study of Carbon Monoxide in a Series of Laminar Ethylene/Air Diffusion Flames Using Tunable Diode Laser Absorption Spectroscopy, 100: 430
- SMALLWOOD, G. J.: see Gülder, Ö. L.
- SMALLWOOD, G. J., GÜLDER, Ö. L., SNELLING, D. R., DESCHAMPS, B. M., and GÖKALP, I.  
 Characterization of Flame Front Surfaces in Turbulent Premixed Methane/Air Combustion, 101: 462
- SMIRNOV, N. N., and PANFILOV, I. I.  
 Deflagration to Detonation Transition in Combustible Gas Mixtures, 101: 91
- SMIRNOV, N. N., and TYURNIKOV, M. V.  
 Experimental Investigation of Deflagration to Detonation Transition in Hydrocarbon-Air Gaseous Mixtures, 100: 661
- SMITH, D. B.: see Taylor, S. C.
- SMITH, L. L., DIBBLE, R. W., TALBOT, L., BARLOW, R. S., and CARTER, C. D.  
 Laser Raman Scattering Measurements of Differential Molecular Diffusion in Turbulent Nonpremixed Jet Flames of  $H_2/CO_2$  Fuel, 100: 153
- SMOOKE, M. D.: see Balakrishnan, G.
- SMOOKE, M. D.: see Mueller, C. J.
- SMOOKE, M. D.: see Tanoff, M. A.
- SMOOT, L. D.: see Monson, C. R.
- SMYTH, K.: see Puri, R.
- SNELLING, D. R.: see Smallwood, G. J.
- SOCHET, L. R.: see Minetti R.
- SOCOLIUC, M.: see Sahetchian, K.
- SOGARO, A.: see Ranzi, E.
- SOHRAB, S. H.: see Chen, C. L.
- SOHRAB, S. H.: see Chen, Z. H.
- sohrab, s. s.: see Lee, H.
- SON, S. F.: see Brewster, Q.
- SON, S. F., and BREWSTER, M. Q.  
 Unsteady Combustion of Homogeneous Energetic Solids Using the Laser-Recoil Method, 100: 283
- SPIGLANIN, T. A., MCILROY, A., FOURNIER, E. W., COHEN, R. B., and SYAGE, J. A.  
 Time-Resolved Imaging of Flame Kernels: Laser Spark Ignition of  $H_2/O_2/Ar$  Mixtures, 102: 310
- SRIVASTAVA, R. K.: see Linak, W. P.
- STAKER, W. S.: see Hayes, F.
- STANMORE, B.: see Gilot, P.
- STEELE, R. C., MALTE, P. C., NICOL, D. G., and KRAMLICH, J. C.  
 $NO_x$  and  $N_2O$  in Lean-Premixed Jet-Stirred Flames, 100: 440
- STEWART, C. D.: see Moss, J. B.
- STEWART, D. S.: see Yao, J.
- STONE, C. R.: see Raine, R. R.
- STOWE, R. A.: see Rao, V. K.
- SUNDERLAND, P. B., KÖYLÜ, Ö. Ö., and FAETH, G. M.  
 Soot Formation in Weakly Buoyant Acetylene-Fueled Laminar Jet Diffusion Flames Burning in Air, 100: 310
- SUNG, C. J., LIU, J. B., and LAW, C. K.  
 Structural Response of Counterflow Diffusion Flames to Strain Rate Variations, 102: 481
- SUNG, C. J., TRUJILLO, J. Y. D., and LAW, C. K.  
 On Non-Huygens Flame Configuration in Stagnation Flow, 103: 247
- SUTKUS, D. J.: see Mueller, C. J.
- SYAGE, J. A.: see Spiglanin, T. A.
- SYRED, N.: see Froud, D.
- TAGHIZADEH, K.: see Howard, J. B.
- TALBOT, L.: see Smith, L. L.
- TANG, L.: see Ramachandra, P. A.
- TANG, Y. M., WALDHERR, G., JAGODA, J. I., and ZINN, B. T.  
 Heat Release Timing in a Nonpremixed Helmholtz Pulse Combustor, 100: 251
- TANOFF, M. A., SMOOKE, M. D., TEETS, R. E., and SELL, J. A.  
 Computational and Experimental Studies of Laser-Induced Thermal Ignition in Premixed Ethylene-Oxidizer Mixtures, 103: 253
- TAYLOR, A. M. K. P.: see Mastorakos, E.

- TAYLOR, S. C., and SMITH, D. B.  
 Comment on "Laminar Burning Velocities and Markstein Numbers of Hydrocarbon/Air Flames" by L.-K. Tseng, M. A. Ismail, and G. M. Faeth, 102: 523
- TEETS, R. E.: see Tanoff, M. A.
- THERSSEN, E.: see Minetti R.
- THERSSEN, E., GOURICHON, L., and DELFOSSE, L.  
 Devolatilization of Coal Particles in a Flat Flame—Experimental and Modeling Study, 103: 115
- TIVANOV, G., and ROM, J.  
 Stability of Hypersonic Reacting Stagnation Flow of a Detonatable Gas Mixture by Dynamical Systems Analysis, 103: 311
- TOGNOTTI, L.: see Cozzani, V.
- TOKUHASHI, K.: see Kondo, S.
- TRCINSKI, W.: see Cudizilo, S.
- TREVIÑO, C., and LIÑÁN, A.  
 Mixing Layer Ignition of Hydrogen, 103: 129
- TRUJILLO, J. Y. D.: see Sung, C. J.
- TRUNEV, A. V.: see Shebeko, Yu. N.
- TRUNOV, M. A.: see Dreizin, E. L.
- TSAI, M. J.: see Jiang, T. L.
- TSARICHENKO, S. G.: see Shebeko, Yu. N.
- TSENG, L.-K.: see Aung, K. T.
- TSENG, L.-K., ABHISHEK, K., and GORE, J. P.  
 An Experimental Realization of Premixed Methane/Air Cylindrical Flames, 102: 519
- TWAROWSKI, A.  
 The Effect of Phosphorus Chemistry on Recombination Losses in a Supersonic Nozzle, 102: 55
- TWAROWSKI, A.  
 Reduction of a Phosphorus Oxide and Acid Reaction Set, 102: 41
- TYURNIKOV, M. V.: see Smirnov, N. N.
- VANDER WAL R. L., CHOI, M. Y., and LEE, K.-O.  
 The Effects of Rapid Heating of Soot: Implications When Using Laser-Induced Incandescence for Soot Diagnostics, 102: 200
- VANDOOREN J, BRANCH M. C., and VAN TIGGELEN, P. J.  
 Reply to Comment by J. C. Jones, 101: 195
- VAN NIEKERK, J. E.: see Lockwood, F. C.
- VAN TIGGELEN, P.: see Vandooren J.
- VERVISCH, L.: see Mahalingam, S.
- VLACHOS, D. J.  
 The Interplay of Transport, Kinetics, and Thermal Interactions in the Stability of Premixed Hydrogen/Air Flames Near Surfaces, 103: 59
- VOLPERT, V. A.: see Aldushin, A. P.
- VOLPERT, V. A.: see Schult, D. A.
- WALDHERR, G.: see Tang, Y. M.
- WALRAVENS, B., BATTIN-LECLERC, F., CÔME, G. M., and BARONNET, F.  
 Inhibiting Effect of Brominated Compounds on Oxidation Reactions, 103: 339
- WANG, H.: see Kazakov, A.
- WARREN, D. L.: see Hedman, P. O.
- WEISENSTEIN, W.: see Griffin, T.
- WEISS, Y., and BAR-ZIV, E.  
 Observation of Nonuniform Shrinkage and Activation of Highly Porous Chars during Combustion in an Improved Electrodynamic Chamber, 101: 452
- WENDT, J. O. L.: see Bool, L. E., III
- WENDT, J. O. L.: see Linak, W. P.
- WHITELAW, J. H.: see Mastorakos, E.
- WICHMAN, I. S.: see Bruneaux, G.
- WICHMAN, I. S.: see Di Blasi, C.
- WICHMAN, I. S., and BRUNEAUX, G.  
 Head-On Quenching of a Premixed Flame by a Cold Wall, 103: 296
- WIEGAND, D. A.: see Mellor, A. M.
- WIESE, W.: see Bachmann, M.
- WILLIAMS, B. A., and FLEMING, J. W.  
 Comparison of Species Profiles between  $O_2$  and  $NO_2$  Oxidizers in Premixed Methane Flames, 100: 571
- WILLIAMS, F. A.: see Balakrishnan, G.
- WILLIAMS, F. A.: see Im, H. G.
- WILLIAMS, F. A.: see Rightley, M. L.
- WILLIAMS, G. K., and BRILL, T. B.  
 Thermal Decomposition of Energetic Materials 67. Hydrazinium Nitroformate (HNF) Rates and Pathways under Combustionlike Conditions, 102: 418
- WOLVERTON, M. K.: see Ramachandra, P. A.
- WORNAT, M. J., HURT, R. H., YANG, N. Y. C., and HEADLEY, T. J.  
 Structural and Compositional Transformations of Biomass Chars during Combustion, 100: 131
- WU, K.-C., HOCHGREB, S., and NORRIS, M. G.  
 Chemical Kinetic Moulding of Exhaust Hydrocarbon Oxidation, 100: 193
- YANG, N. Y. C.: see Wornat, M. J.
- YANG, N. Y. C.: see Davis, K. A.
- YAO, J., and STEWART, D. S.  
 On the Normal Detonation Shock Velocity-Curvature Relationship for Materials with Large Activation Energy, 100: 519
- YARIN, A. L.: see Moses, E.
- YETTER, R. A.: see Brown, R. C.
- YETTER, R. A.: see Lee, J. C.

YETTER, R. A.: see Roesler, J. F.

YOUNG, K. J.: see Moss, J. B.

YU, T., and LIN, M. C.

Kinetics of the Phenyl Radical Reaction with  
Ethylene: An RRKM Theoretical Analysis  
of Low and High Temperature Data,  
100: 169

YUAN, T.: see Durox, D.

ZAITZEV, A. A.: see Shebeko, Yu. N.

ZHANG, B. L.: see Fu, W. B.

ZHANG, S., and RUTLAND, C. J.

Premixed Flame Effects on Turbulence and  
Pressure-Related Terms, 102: 447

ZHANG, Y.: see Ronney, P. D.

ZHDANOK, S., KENNEDY, L. A., and KOESTER, G.

Superadiabatic Combustion of Methane Air  
Mixtures under Filtration in a Packed Bed,  
100: 221

ZHOU, X. C., and GORE, J. P.

Air Entrainment Flow Field Induced by a Pool  
Fire, 100: 52

ZHU, D. L.: see Eng, J. A.

ZINN, B. T.: see Tang, Y. M.

## SUBJECT INDEX

Volumes 100, 101, 102, and 103, 1995

## 1. ASYMPTOTIC ANALYSES

- The Asymptotic Structure of Inhibited Nonpremixed Methane-Air Flames, 101: 271
- The Asymptotic Structure of Nonpremixed Methane-Air Flames with Oxidizer Leakage of Order Unity, 101: 69
- Head-On Quenching of a Premixed Flame by a Cold Wall, 103: 296
- Mixing Layer Ignition of Hydrogen, 103: 129
- On the Normal Detonation Shock Velocity-Curvature Relationship for Materials with Large Activation Energy, 100: 519
- Propagation and Extinction of Forced Opposed Flow Smolder Waves, 101: 471
- Quenching of Reverse Smolder, 102: 87
- Response of Counterflow Diffusion Flames to Oscillating Strain Rates, 100: 21
- Stoichiometric Flames and Their Stability, 101: 15

## 2. COMBUSTION IN PRACTICAL SYSTEMS

- An Adaptive Optimal Combustion Control Strategy, 100: 101
- Biosludge Incineration in FBCs: Behavior of Ash Particles, 100: 121
- Char Oxidation at Elevated Pressures, 100: 669
- Decreases in the Swelling and Porosity of Bituminous Coals during Devolatilization at High Heating Rates, 100: 94
- Devolatilization of Coal Particles in a Flat Flame—Experimental and Modeling Study, 103: 115
- Effect of Agglomeration on Pulverized-Coal Combustion, 101: 185
- Experimental Study and Modeling of Dodecane Ignition in a Diesel Engine, 103: 207
- In-Cylinder Measurement of Mixture Maldistribution in an L-Head Engine, 101: 45
- Modeling of Nitric Oxide Formation in Spark Ignition Engines with a Multizone Burned Gas, 102: 241
- Nonoxide Ceramic Powder Synthesis, 100: 144
- On Knocking Prediction in Spark Ignition Engines, 101: 239

Parametric Study of a Carbon Black Oil Furnace, 103: 76

- Sorbent Capture of Nickel, Lead, and Cadmium in a Laboratory Swirl Flame Incinerator, 100: 241
- Stimulation of Diesel-Fuel Ignition by Benzyl Radicals, 101: 383
- Turbulent Velocity and Temperature Measurements from a Gas-Field Technology Combustor with a Practical Fuel Injector, 100: 185

3. COMBUSTION STABILITY/INSTABILITY  
Stoichiometric Flames and Their Stability, 101: 15

## 4. COMBUSTION SYSTEMS: ANALYTIC AND NUMERICAL DESCRIPTIONS

- Analytical Approximations for Structures of Wet CO Flames with One-Step Reduced Chemistry, 101: 287
- The Asymptotic Structure of Nonpremixed Methane-Air Flames with Oxidizer Leakage of Order Unity, 101: 69
- Chemical Kinetic Moulding of Exhaust Hydrocarbon Oxidation, 100: 193
- Detailed Modeling of Soot Formation in Laminar Premixed Ethylene Flames at a Pressure of 10 Bar, 100: 111
- Effect of Nonunity Lewis Number on Premixed Flame Propagation through Isotropic Turbulence, 101: 428
- The Effect of Phosphorus Chemistry on Recombination Losses in a Supersonic Nozzle, 102: 55
- Finite-Rate Chemistry and Transient Effects in Direct Numerical Simulations of Turbulent Nonpremixed Flames, 102: 285
- Flamelet Structure of Radiating  $\text{CH}_4$ -Air Flames, 102: 438
- Flame Propagation in Metal Slurry Sprays, 100: 605
- Flammability Limit and Limit-Temperature of Counterflow Lean Methane-Air Flames, 102: 193



- Head-On Quenching of a Premixed Flame by a Cold Wall, 103: 296
- Ignition Simulation of Methane/Hydrogen Mixtures in a Supersonic Mixing Layer, 102: 462
- The Interplay of Transport, Kinetics, and Thermal Interactions in the Stability of Premixed Hydrogen/Air Flames Near Surfaces, 103: 59
- Kinetic Interactions of CO, NO<sub>x</sub>, and HCl Emissions in Postcombustion Gases, 100: 495
- Kinetic Modeling and Sensitivity Analysis for B/H/O/C/F Combination Systems, 101: 221
- Low-Temperature Combustion: Automatic Generation of Primary Oxidation Reactions and Lumping Procedures, 102: 179
- Nonintrusive Stabilization of a Conical Detonation Wave for Supersonic Combustion, 103: 281
- Numerical Investigation of Chemical Reaction-Turbulence Interaction in Compressible Shear Layers, 101: 197
- A Numerical Investigation of Extinction and Ignition Limits in Laminar Nonpremixed Counterflowing Hydrogen-Air Streams for Both Elementary and Reduced Chemistry, 102: 329
- Numerical Modeling of Combustion Processes Induced by a Supersonic Conical Blunt Body, 100: 85
- Numerical Studies on the Structure of Two-Dimensional H<sub>2</sub>/Air Premixed Jet Flame, 102: 21
- On Knocking Prediction in Spark Ignition Engines, 101: 239
- On Non-Huygens Flame Configuration in Stagnation Flow, 103: 247
- On the Normal Detonation Shock Velocity-Curvature Relationship for Materials with Large Activation Energy, 100: 519
- On the Oscillation of Combustion of a Laminar Spray, 100: 543
- Perturbation Analysis of a Catalytic Combustor, 102: 205
- Predicting the Devolatilization Behavior of any Coal from Its Ultimate Analysis, 100: 384
- Predictions of Turbulent, Premixed Flame Propagation in Explosion Tubes, 102: 115
- Premixed Flame Effects on Turbulence and Pressure-Related Terms, 102: 447
- Reduction of a Phosphorus Oxide and Acid Reaction Set, 102: 41
- The Removal of NO by Low-Temperature O<sub>2</sub> Oxidation, 102: 512
- Response of Counterflow Diffusion Flames to Oscillating Strain Rates, 100: 21
- Soot Formation in Strained Diffusion Flames with Gaseous Additives, 102: 11
- Stability of Hypersonic Reacting Stagnation Flow of a Detonatable Gas Mixture by Dynamical Systems Analysis, 103: 311
- Structural Response of Counterflow Diffusion Flames to Strain Rate Variations, 102: 481
- Supercritical Burning of Liquid Oxygen (LOX) Droplet with Detailed Chemistry, 101: 153
- Suspended Droplet Evaporation Modeling in a Laminar Convective Environment, 102: 256
- Three-Dimensional Numerical Simulations of Unsteady Reactive Square Jets, 100: 2
- The Transient Response of Strained Laminar-Premixed Flames, 102: 401
- Upstream Interactions between Planar Symmetric Laminar Methane Premixed Flames, 101: 360
5. COMBUSTION SYSTEMS: MODELING AND SCALING
- Analytical Approximations for Structures of Wet CO Flames with One-Step Reduced Chemistry, 101: 287
- Chemical Closure and Burning Rates in Premixed Turbulent Flames, 100: 202
- Comparison of Pdf and Eddy-Dissipation Combustion Models Applied to a Propane Jet Flame, 102: 209
- A Direct Comparison of Pair-Exchange and IEM Models in Premixed Combustion, 103: 194
- Effects of Solid-Phase Properties on Flames Spreading over Composite Materials, 102: 229
- Inhibiting Effect of Brominated Compounds on Oxidation Reactions, 103: 339
- Experimental Study and Modeling of Dodecane Ignition in a Diesel Engine, 103: 207
- Heat Release and Induced Strain in Premixed Flames, 103: 1
- Low-Temperature Combustion: Automatic Generation of Primary Oxidation Reactions and Lumping Procedures, 102: 179
- Mechanism of Sulfur Chemiluminescent Emission in Pulsed Flames, 100: 550
- Modeling of Nitric Oxide Formation in Spark Ignition Engines with a Multizone Burned Gas, 102: 241

- Modeling Soot Formation and Burnout in a High Temperature Laminar Diffusion Flame Burning Under Oxygen-Enriched Conditions, 101: 491
- Nonpremixed Flames in Stagnating Turbulence Part I—The  $k-\epsilon$  Theory with Equilibrium Chemistry for the Methane–Air System, 102: 341
- A Numerical Investigation of Multiple Flame Configurations in Convective Droplet Gasification, 103: 221
- Premixed and Diffusion Flames in a Centrifuge, 102: 501
- Quasi-Steady Combustion Modeling of Homogeneous Solid Propellants, 103: 11
- A Rapid Compression Machine Investigation of Oxidation and Auto-Ignition of  $n$  Heptane: Measurements and Modeling, 102: 298
- Similitude and the Interpretation of Turbulent Diffusion Flames, 101: 175
- Strained Dissipation and Reaction Layer Analyses of Nonequilibrium Chemistry in Turbulent Reaction Flows, 100: 457
- The Structure of a Stoichiometric  $\text{Cl}_2\text{-CH}_4$ -Air Flat Flame, 101: 101
- Thermodynamics of Gas Phase Chromium Species: The Chromium Chlorides, Oxychlorides, Fluorides, Oxyfluorides, Hydroxides, Oxyhydroxides, Mixed Oxyfluorochlorohydroxides, and Volatility Calculations in Waste Incineration Processes, 101: 311
- Transient Numerical Modeling of Carbon Particle Ignition and Oxidation, 101: 387
- Turbulent Forced Diffusion Flames, 102: 170
- A Wide-Range Modeling Study of  $n$ -Heptane Oxidation, 103: 91
- 6. COMBUSTION SYSTEMS: NEW
  - The Decomposition Flame of Hydrazine in Inert Porous Media, 103: 143
  - Palladium-Catalyzed Combustion of Methane: Simulated Gas Turbine Combustion at Atmospheric Pressure, 101: 81
- 7. DETONATIONS: CONDENSED PHASE AND HETEROGENEOUS
  - Effect of Diethylenetriamine Sensitization on Detonation of Nitromethane in Porous Media, 100: 292
  - Experimental Study of Deflagration to Detonation Transition Supported by Dust Layers, 100: 505
  - Isothermal Detonation, 101: 339
  - Shock Initiation Studies of Ammonium Nitrate Explosives, 102: 64
- 8. DETONATIONS: GAS PHASE
  - Collision of a Shock Wave with Obstacles in a Combustible Mixture, 100: 341
  - Deflagration to Detonation Transition in Combustible Gas Mixtures, 101: 91
  - Nonintrusive Stabilization of a Conical Detonation Wave for Supersonic Combustion, 103: 281
  - Numerical Modeling of Combustion Processes Induced by a Supersonic Conical Blunt Body, 100: 85
  - On the Normal Detonation Shock Velocity–Curvature Relationship for Materials with Large Activation Energy, 100: 519
  - Stability of Hypersonic Reacting Stagnation Flow of a Detonatable Gas Mixture by Dynamical Systems Analysis, 103: 311
  - Transition to Detonation in Vented Hydrogen–Air Explosions, 103: 243
- 9. DIAGNOSTICS: LASER
  - The Effects of Rapid Heating of Soot: Implications When Using Laser-Induced Incandescence for Soot Diagnostics, 102: 200
  - Ignition and Combustion of Single, Levitated Char Particles, 103: 181
  - Time-Resolved Imaging of Flame Kernels: Laser Spark Ignition of  $\text{H}_2/\text{O}_2/\text{Ar}$  Mixtures, 102: 310
- 10. DIAGNOSTICS: OPTICAL AND PHOTOGRAPHIC
  - Comparisons of the Soot Volume Fraction Using Gravimetric and Light Extinction Techniques, 102: 161
  - The Effects of Rapid Heating of Soot: Implications When Using Laser-Induced Incandescence for Soot Diagnostics, 102: 200
  - Fractal and Projected Structure Properties of Soot Aggregates, 100: 621
  - Images of the Two-Dimensional Field and Temperature Gradients to Quantify Mixing Rates within a Non-Premixed Turbulent Jet Flame, 101: 58
  - Laser Raman Scattering Measurements of Differential Molecular Diffusion in Turbulent Nonpremixed Jet Flames of  $\text{H}_2/\text{CO}_2$  Fuel, 100: 153

## 11. DIAGNOSTICS: OTHER

- Composition Distortion in MBMS Sampling, 103: 171
- Fluidized Bed Feeding of Carbon Black Particles, 103: 239
- Kinetic Parameters of Composite Propellants from Thermogravimetric Data, 102: 219
- Laser Ionization Time-of-Flight Mass Spectrometry Combined with Residual Gas Analysis for the Investigation of Moderate Temperature Benzene Oxidation, 100: 41
- Observation of Nonuniform Shrinkage and Activation of Highly Porous Chars during Combustion in an Improved Electrodynamic Chamber, 101: 452

## 12. EXPERIMENTAL TECHNIQUES OR RESULTS: BURNERS

- Buoyancy-Induced Differences in Soot Morphology, 102: 216
- Burning Velocities of Multicomponent Organic Fuel Mixtures Derived from Various Coals, 101: 399
- Characterization of Flame Front Surfaces in Turbulent Premixed Methane/Air Combustion, 101: 462
- Combustion Chemistry in Premixed  $C_2F_4-O_2$  Flames, 100: 529
- Comparison of Species Profiles between  $O_2$  and  $NO_2$  Oxidizers in Premixed Methane Flames, 100: 571
- Composition Distortion in MBMS Sampling, 103: 171
- The Coupling of Conical Wrinkled Laminar Flames with Gravity, 103: 22
- The Decomposition Flame of Hydrazine in Inert Porous Media, 103: 143
- Effects of Heat Release on the Near Field Flow Structure of Hydrogen Jet Diffusion Flames, 102: 271
- Effects of Oxygen on Soot Formation in Methane, Propane and *n*-Butane Diffusion Flames, 101: 302
- An Experimental Realization of Premixed Methane/Air Cylindrical Flames, 102: 519
- Extinction of Turbulent Counterflow Flames with Reactants Diluted by Hot Products, 102: 101
- Heat Release and Induced Strain in Premixed Flames, 103: 1
- Hydrodynamic Aspects of Premixed Flame Stripes in Two-Dimensional Stagnation-Point Flows, 101: 441

Modeling Soot Formation and Burnout in a High Temperature Laminar Diffusion Flame Burning Under Oxygen-Enriched Conditions, 101: 491

- Nanoscale Unagglomerated Nonoxide Particles from a Sodium Coflow Flame, 100: 350
- On the Structure, Stabilization, and Dual Response of Flat-Burner Flames, 100: 645
- Quantitative LIF Measurements and Modeling of Nitric Oxide in High-Pressure  $C_2H_4/O_2/N_2$  Flames, 101: 141
- Soot Formation in Weakly Buoyant Acetylene-Fueled Laminar Jet Diffusion Flames Burning in Air, 100: 310
- Structural Response of Counterflow Diffusion Flames to Strain Rate Variations, 102: 481
- Surface Phenomena in Aluminum Combustion, 101: 378

## 13. EXPERIMENTAL TECHNIQUES OR RESULTS: PLUG FLOW REACTORS

- Composition Distortion in MBMS Sampling, 103: 171
- A Drop Tube Furnace Study of Coal Combustion and Unburned Carbon Content Using Optical Techniques, 101: 539
- Evolution of Char Chemistry, Crystallinity, and Ultrafine Structure During Pulverized-Coal Combustion, 100: 31
- The Homogeneous, Gas-Phase Formation of Chlorinated and Brominated Dibenzo-*p*-dioxin from 2,4,6-Trichloro- and 2,4,6-Tribromophenols, 100: 11
- Laser Ionization Time-of-Flight Mass Spectrometry Combined with Residual Gas Analysis for the Investigation of Moderate Temperature Benzene Oxidation, 100: 41
- Palladium-Catalyzed Combustion of Methane: Simulated Gas Turbine Combustion at Atmospheric Pressure, 101: 81
- The Partitioning of Iron during the Combustion of Pulverized Coal, 100: 262
- Structural and Compositional Transformations of Biomass Chars during Combustion, 100: 131

## 14. EXPERIMENTAL TECHNIQUES OR RESULTS: QUASI STATIC VESSELS

- Computational and Experimental Studies of Laser-Induced Thermal Ignition in Premixed Ethylene-Oxidizer Mixtures, 103: 253

- Ignition and Combustion of Single, Levitated Char Particles, 103: 181
- Mechanism of Sulfur Chemiluminescent Emission in Pulsed Flames, 100: 550
- Singlet Methylene Removal by Saturated and Unsaturated Hydrocarbons, 100: 653
- Thermal Decomposition of Propargyl Bromide and the Subsequent Formation of Benzene, 100: 177
- 15. EXPERIMENTAL TECHNIQUES OR RESULTS: SHOCK TUBES
- 16. EXPERIMENTAL TECHNIQUES OR RESULTS: WELL STIRRED REACTORS
  - The Devolatilization of Coal and a Comparison of Chars Produced in Oxidizing and Inert Atmospheres in Fluidized Beds, 100: 591
  - Experimental and Numerical Comparison of Extractive and In Situ Laser Measurements of Non-Equilibrium Carbon Monoxide in Lean-Premixed Natural Gas Combustion, 100: 395
  - Experimental Study of the Oxidation of *n*-Heptane in a Jet Stirred Reactor from Low to High Temperature and Pressures up to 40 Atm, 101: 132
  - Inhibiting Effect of Brominated Compounds on Oxidation Reactions, 103: 339
  - NO<sub>x</sub> and N<sub>2</sub>O in Lean-Premixed Jet-Stirred Flames, 100: 440
- 17. FIRE OR EXPLOSION PHENOMENA, COMBUSTION SAFETY
  - Air Entrainment Flow Field Induced by a Pool Fire, 100: 52
  - The Behavior of Flames Spreading Over Thin Solids in Microgravity, 100: 71
  - Comment on "Laminar Burning Velocities and Markstein Numbers of Hydrocarbon/Air Flames" by L.-K. Tseng, M. A. Ismail, and G. M. Faeth, 102: 523
  - Effect of Diethylenetriamine Sensitization on Detonation of Nitromethane in Porous Media, 100: 292
  - Effects of Solid-Phase Properties on Flames Spreading over Composite Materials, 102: 229
  - Experimental Investigation of Deflagration to Detonation Transition in Hydrocarbon-Air Gaseous Mixtures, 100: 661
  - Experimental Study of Deflagration to Detonation Transition Supported by Dust Layers, 100: 505
- Flame Spread over Thin Solid Fuels in Partially Premixed Atmospheres, 100: 474
- Hot Spot Histories in Energetic Materials, 101: 26
- Predictions of Turbulent, Premixed Flame Propagation in Explosion Tubes, 102: 115
- Predictions of Wind-Opposed Flame Spread Rates and Energy Feedback Analysis for Charring Solids in a Microgravity Environment, 100: 332
- Response to Comment by S. C. Taylor and D. B. Smith on "Laminar Burning Velocities and Markstein Numbers of Hydrocarbon/Air Flames, 102: 526
- Similarity Solutions and Applications to Turbulent Upward Flame Spread on Noncharring Materials, 102: 357
- A Study of Carbon Monoxide in a Series of Laminar Ethylene/Air Diffusion Flames Using Tunable Diode Laser Absorption Spectroscopy, 100: 430
- Transition to Detonation in Vented Hydrogen-Air Explosions, 103: 243
- 18. FLAME IGNITION OR STABILIZATION
  - Accumulating Sequence of Ignitions from a Propagating Pulse, 100: 465
  - Computational and Experimental Studies of Laser-Induced Thermal Ignition in Premixed Ethylene-Oxidizer Mixtures, 103:253
  - Experimental Study and Modeling of Dodecane Ignition in a Diesel Engine, 103: 207
  - Gas-Phase Ignition of Accelerated Boundary-Layer Flows on Strongly Catalytic Surfaces, 103: 161
  - Ignition and Combustion of Isolated and Binary Array of Coal Particles, 100: 413
  - Ignition Problems in Scramjet Testing, 101: 347
  - Ignition Process of a Heated Iron Block in High-Pressure Oxygen Atmosphere, 100:376
  - Ignition Simulation of Methane/Hydrogen Mixtures in a Supersonic Mixing Layer, 102: 462
  - Mixing Layer Ignition of Hydrogen, 103: 129
  - A Numerical Investigation of Extinction and Ignition Limits in Laminar Nonpremixed Counterflowing Hydrogen-Air Streams for Both Elementary and Reduced Chemistry, 102: 329
  - On the Structure, Stabilization, and Dual Response of Flat-Burner Flames, 100: 645

- Palladium-Catalyzed Combustion of Methane:  
Simulated Gas Turbine Combustion at  
Atmospheric Pressure, 101: 81
- A Rapid Compression Machine Investigation of  
Oxidation and Auto-Ignition of *n* Heptane:  
Measurements and Modeling, 102: 298
- Spontaneous Ignition Limits of Silane and  
Phosphine, 101:170
- Stimulation of Diesel-Fuel Ignition by Benzyl  
Radicals, 101: 383
- Time-Resolved Imaging of Flame Kernels:  
Laser Spark Ignition of  $H_2/O_2/Ar$  Mixtures,  
102: 310
19. FLAME QUENCHING OR EXTINCTION
- Extinction of Premixed Flames by Pressure  
Drops, 102: 493
- Extinction of Turbulent Counterflow Flames  
with Reactants Diluted by Hot Products,  
102: 101
- Flammability Limit and Limit-Temperature of  
Counterflow Lean Methane-Air Flames,  
102: 193
- Head-On Quenching of a Premixed Flame by a  
Cold Wall, 103: 296
- Modeling of Extinction in Turbulent Diffusion  
Flames by the Velocity-Dissipation-  
Composition PDF Method, 100: 211
- Nonpremixed Turbulent Reacting Flow Near  
Extinction, 101: 501
- A Numerical Investigation of Extinction and  
Ignition Limits in Laminar Nonpremixed  
Counterflowing Hydrogen-Air Streams for  
Both Elementary and Reduced Chemistry,  
102: 329
- Quenching of Reverse Smolder, 102: 87
20. FLAMES: DIFFUSION
- An Adaptive Optimal Combustion Control  
Strategy, 100: 101
- The Asymptotic Structure of Inhibited Nonpre-  
mixed Methane-Air Flames, 101: 271
- The Asymptotic Structure of Nonpremixed  
Methane-Air Flames with Oxidizer Leak-  
age of Order Unity, 101: 69
- Buoyancy-Induced Differences in Soot Mor-  
phology, 102: 216
- Comparison of Pdf and Eddy-Dissipation  
Combustion Models Applied to a Propane  
Jet Flame, 102: 209
- Detailed Kinetic Modeling of  $C_1$ - $C_3$  Alkane  
Diffusion Flames, 102: 129
- Effect of Flame Structure on Soot-Particle  
Inception in Diffusion Flames, 100: 367
- Effects of Heat Release on the Near Field Flow  
Structure of Hydrogen Jet Diffusion Flames,  
102: 271
- Effects of Oxygen on Soot Formation in  
Methane, Propane and *n*-Butane Diffusion  
Flames, 101: 302
- Errors Due to Correlations in Evaluating Mean  
Density from Favre-Averaged Enthalpy and  
Composition in Turbulent Reactive Flow,  
103: 343
- An Experimental Investigation of Li and  $SF_6$   
Wick Combustion, 102: 73
- Experiments on the Interaction between a  
Vortex and A Strained Diffusion Flame,  
100:clon 422
- An Evolution Equation Modeling Inversion of  
Tulip Flames, 100: 450
- Finite-Rate Chemistry and Transient Effects in  
Direct Numerical Simulations of Turbulent  
Nonpremixed Flames, 102: 285
- Flamelet Structure of Radiating  $CH_4$ -Air  
Flames, 102: 438
- Fractal and Projected Structure Properties of  
Soot Aggregates, 100: 621
- Heat Release Timing in a Nonpremixed  
Helmholtz Pulse Combustor, 100: 251
- Ignition Simulation of Methane/Hydrogen  
Mixtures in a Supersonic Mixing Layer,  
102: 462
- Images of the Two-Dimensional Field and  
Temperature Gradients to Quantify Mixing  
Rates within a Non-Premixed Turbulent Jet  
Flame, 101: 58
- Laser Microprobe Analysis of Soot Precursor  
Particles and Carbonaceous Soot, 100: 301
- Laser Raman Scattering Measurements of  
Differential Molecular Diffusion in  
Turbulent Nonpremixed Jet Flames of  
 $H_2/CO_2$  Fuel, 100: 153
- Mixing Layer Ignition of Hydrogen, 103: 129
- Modeling of Extinction in Turbulent  
Diffusion Flames by the Velocity-  
Dissipation-Composition PDF Method,  
100: 211
- Modeling Soot Formation and Burnout in a  
High Temperature Laminar Diffusion Flame  
Burning Under Oxygen-Enriched Condi-  
tions, 101: 491
- Nanoscale Unagglomerated Nonoxide Particles  
from a Sodium Coflow Flame, 100: 350



- Nonpremixed Flames in Stagnating Turbulence  
Part I—The  $\kappa$ - $\epsilon$  Theory with Equilibrium  
Chemistry for the Methane-Air System,  
102: 341
- Nonpremixed Turbulent Reacting Flow Near  
Extinction, 101: 501
- Numerical Investigation of Chemical Reaction-  
Turbulence Interaction in Compressible  
Shear Layers, 101: 197
- Numerical Modeling of Turbulent Jet Diffusion  
Flames in the Atmospheric Surface Layer,  
101: 113
- On the Structure of a Stretched/Compressed  
Laminar  
Flamelet—Influence of Preferential Diffusion,  
100: 61
- Predictions of Wind-Opposed Flame Spread  
Rates and Energy Feedback Analysis for  
Charring Solids in a Microgravity Environ-  
ment, 100: 332
- Premixed and Diffusion Flames in a Centrifuge,  
102: 501
- Response of Counterflow Diffusion Flames to  
Oscillating Strain Rates, 100: 21
- The Role of Ferrocene in Flame Synthesis of  
Silica, 101: 529
- Similarity Solutions and Applications to  
Turbulent Upward Flame Spread on  
Noncharring Materials, 102: 357
- Similitude and the Interpretation of Turbulent  
Diffusion Flames, 101: 175
- Soot Formation in Strained Diffusion Flames  
with Gaseous Additives, 102: 11
- Soot Formation in Weakly Buoyant Acetylene-  
Fueled Laminar Jet Diffusion Flames  
Burning in Air, 100: 310
- Stretched Laminar Flamelet Model of  
Turbulent Chloromethane-Air Nonpre-  
mixed Jet Flames, 103: 328
- Structural Response of Counterflow Diffusion  
Flames to Strain Rate Variations, 102: 481
- Structures Induced by Periodic Acoustic  
Excitation of a Diffusion Flame, 103: 151
- A Study of Carbon Monoxide in a Series of  
Laminar Ethylene/Air Diffusion Flames  
Using Tunable Diode Laser Absorption  
Spectroscopy, 100: 430
- Three-Dimensional Numerical Simulations  
of Unsteady Reactive Square Jets,  
100: 2
- Turbulent Forced Diffusion Flames, 102: 170
21. FLAMES: NONSTEADY  
Experimental Investigation of Deflagration to  
Detonation Transition in Hydrocarbon-Air  
Gaseous Mixtures, 100: 661  
Heat Release Timing in a Nonpremixed  
Helmholtz Pulse Combustor, 100: 251  
On the Oscillation of Combustion of a Laminar  
Spray, 100: 543  
Supercritical Burning of Liquid Oxygen (LOX)  
Droplet with Detailed Chemistry, 101: 153  
Three-Dimensional Numerical Simulations of  
Unsteady Reactive Square Jets, 100: 2  
The Transient Response of Strained Laminar-  
Premixed Flames, 102: 401  
Unsteady Combustion of Homogeneous  
Energetic Solids Using the Laser-Recoil  
Method, 100: 283
22. FLAMES: PREMIXED  
Burning Velocities and Flammability Limits of  
Gaseous Mixtures at Elevated Temperatures  
and Pressures, 102: 427  
Burning Velocities of Multicomponent Organic  
Fuel Mixtures Derived from Various Coals,  
101: 399  
Burning Velocity of the Heterogeneous Flame  
Propagation in the SHS Process Expressed  
in Explicit Form, 101: 551  
Characterization of Flame Front Surfaces in  
Turbulent Premixed Methane/Air Combus-  
tion, 101: 462  
Chemical Closure and Burning Rates in  
Premixed Turbulent Flames, 100: 202  
Collision of a Shock Wave with Obstacles in a  
Combustible Mixture, 100: 341  
Combustion Chemistry in Premixed  $C_2F_4$ - $O_2$   
Flames, 100: 529  
Comment on "Laminar Burning Velocities and  
Markstein Numbers of Hydrocarbon/Air  
Flames" by L.-K. Tseng, M. A. Ismail, and  
G. M. Faeth, 102: 523  
Comparison of Species Profiles between  $O_2$   
and  $NO_2$  Oxidizers in Premixed Methane  
Flames, 100: 571  
Comparisons of the Soot Volume Fraction,  
Using Gravimetric and Light Extinction  
Techniques, 102: 161  
Computational and Experimental Studies  
of Laser-Induced Thermal Ignition in  
Premixed Ethylene-Oxidizer Mixtures,  
103: 253

- The Coupling of Conical Wrinkled Laminar Flames with Gravity, 103: 22
- A Direct Comparison of Pair-Exchange and IEM Models in Premixed Combustion, 103: 194
- Effect of Nonunity Lewis Number on Premixed Flame Propagation through Isotropic Turbulence, 101: 428
- Effect of Unsteady Stretch Rate on OH Chemistry during a Flame-Vortex Interaction, 100: 323
- Elementary Reaction Models and Correlations for Burning Velocities of Multicomponent Organic Fuel Mixtures, 101: 411
- Experimental and Numerical Comparison of Extractive and In Situ Laser Measurements of Non-Equilibrium Carbon Monoxide in Lean-Premixed Natural Gas Combustion, 100: 395
- An Experimental Realization of Premixed Methane/Air Cylindrical Flames, 102: 519
- Experimental Study of Premixed Flames in Intense Isotropic Turbulence, 100: 485
- Fullerenes Versus Soot in Benzene Flames, 101: 548
- Head-On Quenching of a Premixed Flame by a Cold Wall, 103: 296
- Heat Release and Induced Strain in Premixed Flames, 103: 1
- Hydrodynamic Aspects of Premixed Flame Stripes in Two-Dimensional Stagnation-Point Flows, 101: 441
- In-Cylinder Measurement of Mixture Maldistribution in an L-Head Engine, 101: 45
- Inner Cutoff Scale of Flame Surface Wrinkling in Turbulent Premixed Flames, 103: 107
- The Interplay of Transport, Kinetics, and Thermal Interactions in the Stability of Premixed Hydrogen/Air Flames Near Surfaces, 103: 59
- Lewis Number Effects on Premixed Flames Interacting with Turbulent Kármán Vortex Streets, 100: 161
- Nonintrusive Stabilization of a Conical Detonation Wave for Supersonic Combustion, 103: 281
- Numerical Studies on the Structure of Two-Dimensional  $H_2$ /Air Premixed Jet Flame, 102: 21
- On Non-Huygens Flame Configuration in Stagnation Flow, 103: 247
- On the Structure, Stabilization, and Dual Response of Flat-Burner Flames, 100: 645
- Phase Averaging of the Precessing Vortex Core in a Swirl Burner under Piloted and Premixed Combustion Conditions, 100: 407
- Premixed and Diffusion Flames in a Centrifuge, 102: 501
- Premixed Flame Effects on Turbulence and Pressure-Related Terms, 102: 447
- Response to Comment by S. C. Taylor and D. B. Smith on "Laminar Burning Velocities and Markstein Numbers of Hydrocarbon/Air Flames, 102: 526
- Quantitative LIF Measurements and Modeling of Nitric Oxide in High-Pressure  $C_2H_4/O_2/N_2$  Flames, 101: 141
- Spontaneous Ignition Limits of Silane and Phosphine, 101: 170
- Stoichiometric Flames and Their Stability, 101: 15
- The Structure of a Stoichiometric  $Cl_4-CH_4$ -Air Flat Flame, 101: 101
- Superadiabatic Combustion of Methane Air Mixtures under Filtration in a Packed Bed, 100: 221
- Time-Resolved Imaging of Flame Kernels: Laser Spark Ignition of  $H_2/O_2/Ar$  Mixtures, 102: 310
- The Transient Response of Strained Laminar-mixed Flames, 102: 401
- Upstream Interactions between Planar Symmetric Laminar Methane Premixed Flames, 101: 360
- Velocity and Scalar Characteristics of Premixed Turbulent Flames Stabilized by Weak Swirl, 101: 1
- 23. FLAMES: TURBULENT**
- An Adaptive Optimal Combustion Control Strategy, 100: 101
- Air Entrainment Flow Field Induced by a Pool Fire, 100: 52
- Characterization of Flame Front Surfaces in Turbulent Premixed Methane/Air Combustion, 101: 462
- Chemical Closure and Burning Rates in Premixed Turbulent Flames, 100: 202
- Comparison of Pdf and Eddy-Dissipation Combustion Models Applied to a Propane Jet Flame, 102: 209
- The Coupling of Conical Wrinkled Laminar Flames with Gravity, 103: 22
- A Direct Comparison of Pair-Exchange and IEM Models in Premixed Combustion, 103: 194

- Effect of Nonunity Lewis Number on Premixed Flame Propagation through Isotropic Turbulence, 101: 428
  - Effect of Unsteady Stretch Rate on OH Chemistry during a Experiments on the Interaction between a Vortex and A Strained Diffusion Flame, 100: 422
  - Effects of Heat Release on the Near Field Flow Structure of Hydrogen Jet Diffusion Flames, 102: 271
  - Errors Due to Correlations in Evaluating Mean Density from Favre-Averaged Enthalpy and Composition in Turbulent Reactive Flow, 103: 343
  - Experimental Study of Premixed Flames in Intense Isotropic Turbulence, 100: 485
  - Extinction of Turbulent Counterflow Flames with Reactants Diluted by Hot Products, 102: 101
  - Finite-Rate Chemistry and Transient Effects in Direct Numerical Simulations of Turbulent Nonpremixed Flames, 102: 285
  - Flame Propagation through Periodic Vortices, 100: 359
  - Heat Release and Induced Strain in Premixed Flames, 103: 1
  - Images of the Two-Dimensional Field and Temperature Gradients to Quantify Mixing Rates within a Non-Premixed Turbulent Jet Flame, 101: 58
  - Inner Cutoff Scale of Flame Surface Wrinkling in Turbulent Premixed Flames, 103: 107
  - Laser Raman Scattering Measurements of Differential Molecular Diffusion in Turbulent Nonpremixed Jet Flames of  $H_2/CO_2$  Fuel, 100: 153
  - Lewis Number Effects on Premixed Flames Interacting with Turbulent Kármán Vortex Streets, 100: 161
  - Mixing Characteristics of Compressible Vortex Rings Interacting with Normal Shock Waves, 100: 232
  - Modeling of Extinction in Turbulent Diffusion Flames by the Velocity-Dissipation-Composition PDF Method, 100: 211
  - Modeling Variable Density Effects in Turbulent Flames—Some Basic Considerations, 102: 371
  - Nonpremixed Flames in Stagnating Turbulence Part I—The  $\tilde{\kappa}$ - $\tilde{\epsilon}$  Theory with Equilibrium Chemistry for the Methane–Air System, 102: 341
  - Nonpremixed Turbulent Reacting Flow Near Extinction, 101: 501
  - Numerical Investigation of Chemical Reaction-Turbulence Interaction in Compressible Shear Layers, 101: 197
  - Numerical Modeling of Turbulent Jet Diffusion Flames in the Atmospheric Surface Layer, 101: 113
  - On Knocking Prediction in Spark Ignition Engines, 101: 239
  - On Non-Huygens Flame Configuration in Stagnation Flow, 103: 247
  - Phase Averaging of the Precessing Vortex Core in a Swirl Burner under Piloted and Premixed Combustion Conditions, 100: 407
  - Predictions of Turbulent, Premixed Flame Propagation in Explosion Tubes, 102: 115
  - Similitude and the Interpretation of Turbulent Diffusion Flames, 101: 175
  - Strained Dissipation and Reaction Layer Analyses of Nonequilibrium Chemistry in Turbulent Reaction Flows, 100: 457
  - Turbulent Forced Diffusion Flames, 102: 170
  - Turbulent Velocity and Temperature Measurements from a Gas-Field Technology Combustor with a Practical Fuel Injector, 100: 185
  - Velocity and Scalar Characteristics of Premixed Turbulent Flames Stabilized by Weak Swirl, 101: 1
24. FLAMMABILITY
- Burning Velocities and Flammability Limits of Gaseous Mixtures at Elevated Temperatures and Pressures, 102: 427
25. FLUID DYNAMICS: STEADY FLOW
- Numerical Modeling of Combustion Processes Induced by a Supersonic Conical Blunt Body, 100: 85
  - Premixed and Diffusion Flames in a Centrifuge, 102: 501
26. FLUID DYNAMICS: NONSTEADY AND INSTABILITY
- Deflagration to Detonation Transition in Combustible Gas Mixtures, 101: 91
  - Effect of Unsteady Stretch Rate on OH Chemistry during a Flame–Vortex Interaction, 100: 323
  - Gas-Phase Ignition of Accelerated Boundary-Layer Flows on Strongly Catalytic Surfaces, 103: 161
  - Hydrodynamic Aspects of Premixed Flame Stripes in Two-Dimensional Stagnation-Point Flows, 101: 441

- In-Cylinder Measurement of Mixture Maldistribution in an L-Head Engine, 101: 45
- The Interplay of Transport, Kinetics, and Thermal Interactions in the Stability of Premixed Hydrogen/Air Flames Near Surfaces, 103: 59
- On the Structure of a Stretched/Compressed Laminar Flamelet—Influence of Preferential Diffusion, 100: 61
- Phase Averaging of the Precessing Vortex Core in a Swirl Burner under Piloted and Premixed Combustion Conditions, 100: 407
- Stability of Hypersonic Reacting Stagnation Flow of a Detonatable Gas Mixture by Dynamical Systems Analysis, 103: 311
- Supercritical Burning of Liquid Oxygen (LOX) Droplet with Detailed Chemistry, 101: 153
27. FLUID DYNAMICS: TURBULENT
- Air Entrainment Flow Field Induced by a Pool Fire, 100: 52
- In-Cylinder Measurement of Mixture Maldistribution in an L-Head Engine, 101: 45
- Lewis Number Effects on Premixed Flames Interacting with Turbulent Kármán Vortex Streets, 100: 161
- Mixing Characteristics of Compressible Vortex Rings Interacting with Normal Shock Waves, 100: 232
- Modeling Variable Density Effects in Turbulent Flames—Some Basic Considerations, 102: 371
- Numerical Investigation of Chemical Reaction-Turbulence Interaction in Compressible Shear Layers, 101: 197
- Phase Averaging of the Precessing Vortex Core in a Swirl Burner under Piloted and Premixed Combustion Conditions, 100: 407
- Similitude and the Interpretation of Turbulent Diffusion Flames, 101: 175
- Strained Dissipation and Reaction Layer Analyses of Nonequilibrium Chemistry in Turbulent Reaction Flows, 100: 457
- Velocity and Scalar Characteristics of Premixed Turbulent Flames Stabilized by Weak Swirl, 101: 1
28. FUELS, OXIDIZERS AND ADDITIVES, NONCONVENTIONAL
- The Asymptotic Structure of Inhibited Nonpremixed Methane-Air Flames, 101: 271
- Burning Velocity of the Heterogeneous Flame Propagation in the SHS Process Expressed in Explicit Form, 101: 551
- An Experimental Investigation of Li and SF<sub>6</sub> Wick Combustion, 102: 73
- Supercritical Burning of Liquid Oxygen (LOX) Droplet with Detailed Chemistry, 101: 153
29. HETEROGENEOUS COMBUSTION: AEROSOLS, SPRAYS AND AIRBORNE DUSTS
- Biosludge Incineration in FBCs: Behavior of Ash Particles, 100: 121
- Flame Propagation in Metal Slurry Sprays, 100: 605
- Nanoscale Unagglomerated Nonoxide Particles from a Sodium Coflow Flame, 100: 350
- Nonoxide Ceramic Powder Synthesis, 100: 144
- A Numerical Investigation of Multiple Flame Configurations in Convective Droplet Gasification, 103: 221
- On the Oscillation of Combustion of a Laminar Spray, 100: 543
- The Role of Ferrocene in Flame Synthesis of Silica, 101: 529
- Surface Phenomena in Aluminum Combustion, 101: 378
- Turbulent Velocity and Temperature Measurements from a Gas-Field Technology Combustor with a Practical Fuel Injector, 100: 185
30. HETEROGENEOUS COMBUSTION: CATALYTIC COMBUSTION
- Gas-Phase Ignition of Accelerated Boundary-Layer Flows on Strongly Catalytic Surfaces, 103: 161
- Palladium-Catalyzed Combustion of Methane: Simulated Gas Turbine Combustion at Atmospheric Pressure, 101: 81
- Perturbation Analysis of a Catalytic Combustor, 102: 205
- Similarity Solutions and Applications to Turbulent Upward Flame Spread on Noncharring Materials, 102: 357
31. HETEROGENEOUS COMBUSTION: COAL, CHAR OR CARBON
- Burning Velocities of Multicomponent Organic Fuel Mixtures Derived from Various Coals, 101: 399
- Characterizing fuels for Atmospheric Fluidized Bed Combustion, 103: 41
- Char Oxidation at Elevated Pressures, 100: 669

- Decreases in the Swelling and Porosity of Bituminous Coals during Devolatilization at High Heating Rates, 100: 94
  - The Devolatilization of Coal and a Comparison of Chars Produced in Oxidizing and Inert Atmospheres in Fluidized Beds, 100: 591
  - Devolatilization of Coal Particles in a Flat Flame—Experimental and Modeling Study, 103: 115
  - A Drop Tube Furnace Study of Coal Combustion and Unburned Carbon Content Using Optical Techniques, 101: 539
  - Effect of Agglomeration on Pulverized-Coal Combustion, 101: 185
  - The Effects of Pressure, Oxygen Partial Pressure, and Temperature on the Formation of  $N_2O$ ,  $NO$ , and  $NO_2$  from Pulverized Coal, 102: 387
  - Elementary Reaction Models and Correlations for Burning Velocities of Multicomponent Organic Fuel Mixtures, 101: 411
  - Evaluation of a Dimensionless Group Number to Determine Second-Einstein Temperatures in a Heat Capacity Model for All Coal Ranks, 101: 209
  - Evolution of Char Chemistry, Crystallinity, and Ultrafine Structure During Pulverized-Coal Combustion, 100: 31
  - Experimental Determination of the Equivalent Mass Diffusivity for a Porous Coal-Ash Particle, 101: 371
  - Fluidized Bed Feeding of Carbon Black Particles, 103: 239
  - Geometric Effects on Mass Transfer during Thermogravimetric Analysis: Application to Reactivity of Diesel Soot, 102: 471
  - Ignition and Combustion of Isolated and Binary Array of Coal Particles, 100: 413
  - Ignition and Combustion of Single, Levitated Char Particles, 103: 181
  - Observation of Nonuniform Shrinkage and Activation of Highly Porous Chars during Combustion in an Improved Electrodynamic Chamber, 101: 452
  - Parametric Study of a Carbon Black Oil Furnace, 103: 76
  - The Partitioning of Iron during the Combustion of Pulverized Coal, 100: 262
  - Predicting the Devolatilization Behavior of any Coal from Its Ultimate Analysis, 100: 384
  - Predictions of Wind-Opposed Flame Spread Rates and Energy Feedback Analysis for Charring Solids in a Microgravity Environment, 100: 332
  - Soot Formation in Weakly Buoyant Acetylene-Fueled Laminar Jet Diffusion Flames Burning in Air, 100: 310
  - Structural and Compositional Transformations of Biomass Chars during Combustion, 100: 131
  - Transient Numerical Modeling of Carbon Particle Ignition and Oxidation, 101: 387
32. HETEROGENEOUS COMBUSTION: SINGLE DROPLET OR PARTICLE
- Characterizing fuels for Atmospheric Fluidized Bed Combustion, 103: 41
  - Devolatilization of Coal Particles in a Flat Flame—Experimental and Modeling Study, 103: 115
  - Droplet Ignition and Combustion Including Liquid-Phase Heating, 102: 1
  - Effect of Agglomeration on Pulverized-Coal Combustion, 101: 185
  - Geometric Effects on Mass Transfer during Thermogravimetric Analysis: Application to Reactivity of Diesel Soot, 102: 471
  - Ignition and Combustion of Single, Levitated Char Particles, 103: 181
  - $NO_x$  and  $N_2O$  in Lean-Premixed Jet-Stirred Flames, 100: 440
  - Nonideal Vaporization of Dilating Binary Droplets with Radiation Absorption, 101: 36
  - A Numerical Investigation of Multiple Flame Configurations in Convective Droplet Gasification, 103: 221
  - Observation of Nonuniform Shrinkage and Activation of Highly Porous Chars during Combustion in an Improved Electrodynamic Chamber, 101: 452
  - Supercritical Burning of Liquid Oxygen (LOX) Droplet with Detailed Chemistry, 101: 153
  - Surface Phenomena in Aluminum Combustion, 101: 378
  - Suspended Droplet Evaporation Modeling in a Laminar Convective Environment, 102: 256
33. HETEROGENEOUS COMBUSTION: SLAB, POOL, FLUIDIZED BED, ETC.
- The Behavior of Flames Spreading Over Thin Solids in Microgravity, 100: 71
  - Biosludge Incineration in FBCs: Behavior of Ash Particles, 100: 121
  - Burning Velocity of the Heterogeneous Flame



- Propagation in the SHS Process Expressed in Explicit Form, 101: 551
- Characterizing fuels for Atmospheric Fluidized Bed Combustion, 103: 41
- Combustion Characteristics of GAP-Coated Boron Particles and the Fuel-Rich Solid Propellant, 100: 634
- The Decomposition Flame of Hydrazine in Inert Porous Media, 103: 143
- The Devolatilization of Coal and a Comparison of Chars Produced in Oxidizing and Inert Atmospheres in Fluidized Beds, 100: 591
- Effects of Solid-Phase Properties on Flames Spreading over Composite Materials, 102: 229
- An Experimental Investigation of Li and SF<sub>2</sub> Wick Combustion, 102: 73
- Flame Spread over Thin Solid Fuels in Partially Premixed Atmospheres, 100: 474
- Geometric Effects on Mass Transfer during Thermogravimetric Analysis: Application to Reactivity of Diesel Soot, 102: 471
- Ignition Process of a Heated Iron Block in High-Pressure Oxygen Atmosphere, 100: 376
- Pyrolysis and Combustion of Corncobs in a Fluidized Bed: Measurement and Analysis of Behavior, 100: 271
- Superadiabatic Combustion of Methane Air Mixtures under Filtration in a Packed Bed, 100: 221
- Unsteady Combustion of Homogeneous Energetic Solids Using the Laser-Recoil Method, 100: 283
- 34. INHIBITION**
- Inhibiting Effect of Brominated Compounds on Oxidation Reactions, 103: 339
- 35. IONIZATION AND/OR ELECTRICAL EFFECTS**
- Fullerenes Versus Soot in Benzene Flames, 101: 548
- 36. KINETICS AND/OR REACTION MECHANISMS: DETAILED**
- Burning Velocities and Flammability Limits of Gaseous Mixtures at Elevated Temperatures and Pressures, 102: 427
- Chemical Kinetic Moulding of Exhaust Hydrocarbon Oxidation, 100: 193
- Collision of a Shock Wave with Obstacles in a Combustible Mixture, 100: 341
- Combustion Chemistry in Premixed C<sub>2</sub>F<sub>4</sub>-O<sub>2</sub> Flames, 100: 529
- Comparison of Species Profiles between O<sub>2</sub> and NO<sub>2</sub> Oxidizers in Premixed Methane Flames, 100: 571
- Computational and Experimental Studies of Laser-Induced Thermal Ignition in remixed Ethylene-Oxidizer Mixtures, 103: 253
- Detailed Kinetic Modeling of C<sub>1</sub>-C<sub>3</sub>Alkane Diffusion Flames, 102: 129
- Detailed Modeling of Soot Formation in Laminar Premixed Ethylene Flames at a Pressure of 10 Bar, 100: 111
- Effect of Flame Structure on Soot-Particle Inception in Diffusion Flames, 100: 367
- The Effect of Phosphorus Chemistry on Recombination Losses in a Supersonic Nozzle, 102: 55
- The Effects of Pressure, Oxygen Partial Pressure, and Temperature on the Formation of N<sub>2</sub>O, NO, and NO<sub>2</sub> from Pulverized Coal, 102: 387
- Elementary Reaction Models and Correlations for Burning Velocities of Multicomponent Organic Fuel Mixtures, 101: 411
- Experimental Study of the Oxidation of *n*-Heptane in a Jet Stirred Reactor from Low to High Temperature and Pressures up to 40 Atm, 101: 132
- The Homogeneous, Gas-Phase Formation of Chlorinated and Brominated Dibenzo-*p*-dioxin from 2,4,6- Trichloro- and 2,4,6-Tribromophenols, 100: 11
- Ignition Problems in Scramjet Testing, 101: 347
- Inhibiting Effect of Brominated Compounds on Oxidation Reactions, 103: 339
- The Interplay of Transport, Kinetics, and Thermal Interactions in the Stability of Premixed Hydrogen/Air Flames Near Surfaces, 103: 59
- Kinetic Interactions of CO, NO<sub>x</sub>, and HCl Emissions in Postcombustion Gases, 100: 495
- Kinetic Modeling and Sensitivity Analysis for B/H/O/C/F Combination Systems, 101: 221
- Kinetics of the Phenyl Radical Reaction with Ethylene: An RRKM Theoretical Analysis of Low and High Temperature Data, 100: 169
- Laser Ionization Time-of-Flight Mass Spectrometry Combined with Residual Gas Analysis for the Investigation of Moderate Temperature Benzene Oxidation, 100: 41

- Low-Temperature Combustion: Automatic Generation of Primary Oxidation Reactions and Lumping Procedures, 102: 179
- Mathematically Reduced Reaction Mechanisms Applied to Adiabatic Flat Hydrogen/Air Flames, 100: 559
- Mechanism of Sulfur Chemiluminescent Emission in Pulsed Flames, 100: 550
- A Numerical Investigation of Extinction and Ignition Limits in Laminar Nonpremixed Counterflowing Hydrogen-Air Streams for Both Elementary and Reduced Chemistry, 102: 329
- On Knocking Prediction in Spark Ignition Engines, 101: 239
- The Removal of NO by Low-Temperature O<sub>2</sub> Oxidation, 102: 512
- Quantitative LIF Measurements and Modeling of Nitric Oxide in High-Pressure C<sub>2</sub>H<sub>4</sub>/O<sub>2</sub>/N<sub>2</sub> Flames, 101: 141
- A Rapid Compression Machine Investigation of Oxidation and Auto-Ignition of *n* Heptane: Measurements and Modeling, 102: 298
- Reduction of a Phosphorus Oxide and Acid Reaction Set, 102: 41
- Singlet Methylene Removal by Saturated and Unsaturated Hydrocarbons, 100: 653
- Stretched Laminar Flamelet Model of Turbulent Chloromethane-Air Nonpremixed Jet Flames, 103: 328
- Supercritical Burning of Liquid Oxygen (LOX) Droplet with Detailed Chemistry, 101: 153
- Thermal Decomposition of Propargyl Bromide and the Subsequent Formation of Benzene, 100: 177
- A Wide-Range Modeling Study of *n*-Heptane Oxidation, 103: 91
- 37. KINETICS AND/OR REACTION MECHANISMS: OVERALL
  - Analytical Approximations for Structures of Wet CO Flames with One-Step Reduced Chemistry, 101: 287
  - The Asymptotic Structure of Inhibited Nonpremixed Methane-Air Flames, 101: 271
  - Flamelet Structure of Radiating CH<sub>4</sub>-Air Flames, 102: 438
  - Flammability Limit and Limit-Temperature of Counterflow Lean Methane-Air Flames, 102: 193
  - Ignition Problems in Scramjet Testing, 101: 347
  - Low-Temperature Combustion: Automatic Generation of Primary Oxidation Reactions and Lumping Procedures, 102: 179
  - Spontaneous Ignition Limits of Silane and Phosphine, 101: 170
  - The Structure of a Stoichiometric Cl<sub>2</sub>-CH<sub>4</sub>-Air Flat Flame, 101: 101
  - Transient Numerical Modeling of Carbon Particle Ignition and Oxidation, 101: 387
  - Upstream Interactions between Planar Symmetric Laminar Methane Premixed Flames, 101: 360
  - A Wide-Range Modeling Study of *n*-Heptane Oxidation, 103: 91
- 38. POLLUTANTS: INORGANICS AND SOOT
  - Buoyancy-Induced Differences in Soot Morphology, 102: 216
  - Comparisons of the Soot Volume Fraction Using Gravimetric and Light Extinction Techniques, 102: 161
  - Detailed Modeling of Soot Formation in Laminar Premixed Ethylene Flames at a Pressure of 10 Bar, 100: 111
  - Effect of Flame Structure on Soot-Particle Inception in Diffusion Flames, 100: 367
  - Effects of Oxygen on Soot Formation in Methane, Propane and *n*-Butane Diffusion Flames, 101: 302
  - Effects of PAH Isomerizations on Mutagenicity of Combustion Products, 101: 262
  - The Effects of Rapid Heating of Soot: Implications When Using Laser-Induced Incandescence for Soot Diagnostics, 102: 200
  - Experimental and Numerical Comparison of Extractive and In Situ Laser Measurements of Non-Equilibrium Carbon Monoxide in Lean-Premixed Natural Gas Combustion, 100: 395
  - Fractal and Projected Structure Properties of Soot Aggregates, 100: 621
  - Kinetic Interactions of CO, NO<sub>x</sub>, and HCl Emissions in Postcombustion Gases, 100: 495
  - Laser Microprobe Analysis of Soot Precursor Particles and Carbonaceous Soot, 100: 301
  - Modeling Soot Formation and Burnout in a High Temperature Laminar Diffusion Flame Burning Under Oxygen-Enriched Conditions, 101: 491
  - The Role of Ferrocene in Flame Synthesis of Silica, 101: 529
  - Soot Formation in Strained Diffusion Flames with Gaseous Additives, 102: 11

- Soot Formation in Weakly Buoyant Acetylene-Fueled Laminar Jet Diffusion Flames Burning in Air, 100: 310
- Sorbent Capture of Nickel, Lead, and Cadmium in a Laboratory Swirl Flame Incinerator, 100: 241
39. POLLUTANTS:  $\text{NO}_x$
- The Devolatilization of Coal and a Comparison of Chars Produced in Oxidizing and Inert Atmospheres in Fluidized Beds, 100: 591
  - The Effects of Pressure, Oxygen Partial Pressure, and Temperature on the Formation of  $\text{N}_2\text{O}$ ,  $\text{NO}$ , and  $\text{NO}_2$  from Pulverized Coal, 102: 387
  - Kinetic Interactions of  $\text{CO}$ ,  $\text{NO}_x$ , and  $\text{HCl}$  Emissions in Postcombustion Gases, 100: 495
  - Modeling of Nitric Oxide Formation in Spark Ignition Engines with a Multizone Burned Gas, 102: 241
  - $\text{NO}_x$  and  $\text{N}_2\text{O}$  in Lean-Premixed Jet-Stirred Flames, 100: 440
  - The Removal of  $\text{NO}$  by Low-Temperature  $\text{O}_3$  Oxidation, 102: 512
  - On the Structure of a Stretched/Compressed Laminar Flamelet—Influence of Preferential Diffusion, Palladium-Catalyzed Combustion of Methane: Simulated Gas Turbine Combustion at Atmospheric
  - Quantitative LIF Measurements and Modeling of Nitric Oxide in High-Pressure  $\text{C}_2\text{H}_4/\text{O}_2/\text{N}_2$  Flames, 101: 141
40. POLLUTANTS: OTHER
- Chemical Kinetic Modeling of Exhaust Hydrocarbon Oxidation, 100: 193
  - Effects of PAH Isomerizations on Mutagenicity of Combustion Products, 101: 262
  - $\text{NO}_x$  and  $\text{N}_2\text{O}$  in Lean-Premixed Jet-Stirred Flames, 100: 440
  - On the Structure of a Stretched/Compressed Laminar Flamelet—Influence of Preferential Diffusion, 100: 61
  - Sorbent Capture of Nickel, Lead, and Cadmium in a Laboratory Swirl Flame Incinerator, 100: 241
  - Stretched Laminar Flamelet Modeling of Turbulent Chloromethane-Air Nonpremixed Jet Flames, 103: 328
  - A Study of Carbon Monoxide in a Series of Laminar Ethylene/Air Diffusion Flames Using Tunable Diode Laser Absorption Spectroscopy, 100: 430
41. PROPELLANTS: PYROTECHNICS AND EXPLOSIVES
- The Decomposition Flame of Hydrazine in Inert Porous Media, 103: 143
  - Hot Spot Histories in Energetic Materials, 101: 26
  - Kinetic Parameters of Composite Propellants from Thermogravimetric Data, 102: 219
  - Quasi-Steady Combustion Modeling of Homogeneous Solid Propellants, 103: 11
  - Shock Initiation Studies of Ammonium Nitrate Explosives, 102: 64
  - Thermal Decomposition of Energetic Materials 67.
  - Hydrazinium Nitroformate (HNF) Rates and Pathways under Combustionlike Conditions, 102: 418
  - Unsteady Combustion of Homogeneous Energetic Solids Using the Laser-Recoil Method, 100: 283
42. PYROLYSIS AND THERMAL DECOMPOSITION
- Decreases in the Swelling and Porosity of Bituminous Coals during Devolatilization at High Heating Rates, 100: 94
  - The Devolatilization of Coal and a Comparison of Chars Produced in Oxidizing and Inert Atmospheres in Fluidized Beds, 100: 591
  - Experimental Determination of the Equivalent Mass Diffusivity for a Porous Coal-Ash Particle, 101: 371
  - Fullerenes Versus Soot in Benzene Flames, 101: 548
  - The Homogeneous, Gas-Phase Formation of Chlorinated and Brominated Dibenzo-*p*-dioxin from 2,4,6-Trichloro- and 2,4,6-Tribromophenols, 100: 11
  - Low-Temperature Combustion: Automatic Generation of Primary Oxidation Reactions and Lumping Procedures, 102: 179
  - Observation of Nonuniform Shrinkage and Activation of Highly Porous Chars during Combustion in an Improved Electrodynamic Chamber, 101: 452

- Predicting the Devolatilization Behavior of any Coal from Its Ultimate Analysis, 100: 384
- Pyrolysis and Combustion of Corncoals in a Fluidized Bed: Measurement and Analysis of Behavior, 100: 271
- Thermal Decomposition of Energetic Materials 67.
- Hydrazinium Nitroformate (HNF) Rates and Pathways under Combustionlike Conditions, 102: 418
- Thermal Decomposition of Propargyl Bromide and the Subsequent Formation of Benzene, 100: 177
- 43. RADIATION SPECTRA AND EXCITED SPECIES
  - Flamelet Structure of Radiating  $\text{CH}_4$ -Air Flames, 102: 438
  - Mechanism of Sulfur Chemiluminescent Emission in Pulsed Flames, 100: 550
  - Nonideal Vaporization of Dilating Binary Droplets with Radiation Absorption, 101: 36
- 44. SMOLDERING AND LOW TEMPERATURE OXIDATION NONE
  - Propagation and Extinction of Forced Opposed Flow Smolder Waves, 101: 471
  - Quenching of Reverse Smolder, 102: 87
- 45. THERMOCHEMISTRY AND THERMODYNAMICS
  - The Effect of Phosphorus Chemistry on recombination Losses in a Supersonic Nozzle, 102: 55
  - Evaluation of a Dimensionless Group Number to Determine Second-Einstein Temperatures in a Heat Capacity Model for All Coal Ranks, 101: 209
  - Nonideal Vaporization of Dilating Binary Droplets with Radiation Absorption, 101: 36
  - Thermodynamics of Gas Phase Chromium Species: The Chromium Chlorides, Oxychlorides, Fluorides, Oxyfluorides, Hydroxides, Oxyhydroxides, Mixed Oxyfluorochlorohydroxides, and Volatility Calculations in Waste Incineration Processes, 101: 311
- 46. TRANSPORT OF HEAT AND MASS
  - Droplet Ignition and Combustion Including Liquid-Phase Heating, 102: 1
  - Geometric Effects on Mass Transfer during Thermogravimetric Analysis: Application to Reactivity of Diesel Soot, 102: 471